

Notations :

- Options shown in **green** color and with ✓ icon are correct.
- Options shown in **red** color and with ✗ icon are incorrect.

Paper Id	Paper Name
20996312	TS ICET 2024 6th June 2024 Shift 1

Question Paper Name:	TS ICET 2024 6th June 2024 Shift 1
Subject Name:	TS ICET 2024
Creation Date:	2024-06-03 12:07:06
Number of Questions:	200
Total Marks:	200
Display Marks:	Yes
Share Answer Key With Delivery Engine:	Yes
Actual Answer Key:	Yes
Calculator:	None
Magnifying Glass Required?:	No
Ruler Required?:	No
Eraser Required?:	No
Scratch Pad Required?:	No
Rough Sketch/Notepad Required?:	No
Protractor Required?:	No
Show Watermark on Console?:	Yes
Highlighter:	No
Auto Save on Console?	Yes
Question Type For Auto Save	MCQ,COMPREHENSION
Change Font Color?:	No
Change Background Color?:	No
Change Theme?:	No
Help Button?:	No
Show Reports?:	No
Show Progress Bar?:	No
Show hint in candidate console:	No

TS ICET 2024

Group Number :	1
Group Id :	20996312
Group Maximum Duration :	0
Group Minimum Duration :	150
Show Attended Group? :	No
Edit Attended Group? :	No
Break time:	0
Group Marks:	200

Is this Group for Examiner?:	No
Show Progress Bar?:	No
Navigate To Group Summary From Last Question?:	No
Disable Submit Button During Assessment?:	No

Analytical Ability

Section Id :	20996334
Section Number :	1
Section type :	Online
Mandatory or Optional:	Mandatory
Number of Questions to be attempted:	45
Section Marks:	75
Maximum Instruction Time :	0

Sub-Section Number:	1
Sub-Section Id:	209963254
Question Shuffling Allowed :	No

Question Id : 2099632289 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No Question Pattern Type : NonMatrix Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Question Numbers : (1 to 20)

SECTION - A : ANALYTICAL ABILITY

1. Data Sufficiency

దత్తాంశ పర్యాప్తత

Note: In questions numbered from 1 to 20, a question is followed by data in the form of two statements labelled as (I) and (II). You must decide whether the data given in the statements are sufficient to answer the questions. Using the data make an appropriate choice from (1) to (4) as per the following guidelines:

- Mark choice (1) if the statement (I) alone is sufficient to answer the question.
- Mark choice (2) if the statement (II) alone is sufficient to answer the question.
- Mark choice (3) if both the statements (I) and (II) are sufficient to answer the question but neither statement alone is not sufficient.
- Mark choice (4) if both the statements (I) and (II) together are not sufficient to answer the question and additional data are required.

సూచన: 1 నుండి 20 వరకు ఇచ్చిన ప్రతి ప్రశ్నలోను ఒక ప్రశ్న, దాని క్రింద (I), (II) అని గుర్తులు గల రెండు ప్రవచనాలు దత్తాంశంగా ఇవ్వబడ్డాయి. ఇచ్చిన దత్తాంశాన్ని ఉపయోగించి, ఇచ్చిన ప్రవచనాలు ప్రశ్నకు సమాధానాన్ని ఇచ్చేందుకు పర్యాప్తాలు అవుతాయా అని మీరు నిర్ధారించాలి. ఈ నిర్ధారణకు క్రింది మార్గదర్శక సూత్రాలు ఉపయోగించి (1) నుండి (4) వరకు సరైన జవాబును ఎంపిక చేయండి.

- ప్రశ్నకు సమాధానం ఇచ్చేందుకు ప్రవచనం (I) మాత్రమే పర్యాప్తమయి (II) చే సమాధానమివ్వలేకపోతే మీ జవాబు (1) గా గుర్తించండి.
- ప్రశ్నకు సమాధానం ఇచ్చేందుకు ప్రవచనం (II) మాత్రమే పర్యాప్తమయి, (I) చే సమాధానమివ్వలేకపోతే మీ జవాబు (2) గా గుర్తించండి.
- ప్రశ్నకు సమాధానం ఇచ్చేందుకు ప్రవచనం (I), (II) కలిసి పర్యాప్తమయి అందులో ఏ ఒక్కటి కూడా పర్యాప్తం కాకపోతే మీ జవాబు (3) గా గుర్తించండి.
- ప్రశ్నకు సమాధానం ఇచ్చేందుకు ప్రవచనం (I), (II) కలిసి కూడా పర్యాప్తం కాక అదనపు దత్తాంశం అవసరమైతే మీ జవాబు (4) గా గుర్తించండి.

Sub questions

Question Number : 1 Question Id : 2099632290 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

1. Data Sufficiency

దత్తాంశ పర్యాప్తత

What is the four-digit number $54xy$?

$54xy$ అనే నాలుగుకొల సంఖ్య ఏది ?

(I) $x + y = 4$

(II) $x - y = 2$

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 2 Question Id : 2099632291 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

1. Data Sufficiency

దత్తాంశ పర్యాప్తత

What is the GCD of x and y ?

x, y ల గ.సా.భా. ఎంత ?

(I) $x^2 + y^2 = 36$

(II) LCM of x and y is xy .

x, y ల క.సా.గు. xy .

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 3 Question Id : 2099632292 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

1. Data Sufficiency

దత్తాంశ పర్యాప్తత

What is the area of the rectangle?

ఆ దీర్ఘ చతురస్రం వైశాల్యం ఎంత ?

(I) The ratio of length and breadth of the rectangle is 5 : 3.

ఆ దీర్ఘ చతురస్రం పొడవు, వెడల్పుల నిష్పత్తి 5 : 3.

(II) Circumference of a circle is 352 m and the length of the rectangle is $\frac{1}{4}$ of the radius of the circle.

352 మీ. వృత్త పరిధిని కలిగిన వృత్తవ్యాసార్థం లో 4 వ వంతునకు దీర్ఘ చతురస్రం పొడవు సమానం.

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 4 Question Id : 2099632293 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

1. Data Sufficiency

దత్తాంశ పర్యాప్తత

If x and y are real then, what is the value of xy ?

x, y లు వాస్తవ సంఖ్యలయితే, xy విలువ ఎంత ?

(I) $x + y = 8$

(II) $x^2 + y^2 = 34$

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 5 Question Id : 2099632294 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

1. Data Sufficiency

దత్తాంశ పర్యాప్తత

What is the volume of the cylinder whose radius is r cm and height h cm?

r సెం.మీ.. వ్యాసార్థం మరియు h సెం.మీ. ఎత్తు కలిగిన స్థూపం ఘన పరిమాణం ఎంత ?

(I) $r + h = 10$

(II) $r^2 - rh - 2h^2 = 0$

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. * 4

Question Number : 6 Question Id : 2099632295 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

1. Data Sufficiency

దత్తాంశ పర్యాప్తత

Is that year a leap year?

ఆ సంవత్సరం లీప్ సంవత్సరం అవుతుందా?

(I) The number represented the year is divisible by 4.

ఆ సంవత్సరాన్ని సూచించే సంఖ్య 4 చే భాగింపబడుతుంది.

(II) The number represented the year ends in two zeros.

ఆ సంవత్సరాన్ని సూచించే సంఖ్య రెండు సున్నాలతో అంతమవుతుంది.

Options :

1. ✓ 1

2. * 2

3. * 3

4. * 4

Question Number : 7 Question Id : 2099632296 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

1. Data Sufficiency

దత్తాంశ పర్యాప్తత

What is the distance between the places A and B ?

A, B అనే స్థలాల మధ్య దూరం ఎంత ?

(I) If a person starts walking from A with a speed of 4 km/hr, he reaches B by 30 min. late

A నుండి బయలుదేరిన వ్యక్తి గంటకు 4 కి.మీ. వేగం తో నడిస్తే Bని 30 ని. లు ఆలస్యంగా చేరుకొంటాడు.

(II) If a person travels from A on a cycle with a speed of 6 km/hr, he reaches B by 20 min. earlier.

A నుండి బయలుదేరిన వ్యక్తి సైకిల్ పై గంటకు 6 కి.మీ. వేగం తో ప్రయాణించి నపుడు B ని 20 ని.లు ముందుగా చేరుకొంటాడు.

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 8 Question Id : 2099632297 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

1. Data Sufficiency

దత్తాంశ పర్యాప్తత

Find the prime number p .

p అనే ప్రధానాంకాన్ని కనుక్కోండి.

(I) p lies in between 40319 and 40330.

40319 మరియు 40330 ల మధ్య p ఉంటుంది.

(II) $p > 40318$

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 9 Question Id : 2099632298 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

1. Data Sufficiency

దత్తాంశ పర్యాప్తత

What is the area of the rectangle?

ఆ దీర్ఘ చతురస్రం వైశాల్యం ఎంత ?

(I) The perimeter of the rectangle is $48m$.

దీర్ఘ చతురస్రం చుట్టు కొలత 48 మీ.

(II) The ratio of length and breadth of the rectangle is $7:5$.

దీర్ఘ చతురస్రం పొడవు, వెడల్పుల నిష్పత్తి $7:5$.

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 10 Question Id : 2099632299 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

1. Data Sufficiency

దత్తాంశ పర్యాప్తత

Find the number of possible values of the natural number n .

సహజ సంఖ్య n కు వీలయ్యే విలువల సంఖ్యను కనుక్కోండి.

(I) n is greater than or equal to 1.

n అనేది 1 కన్న పెద్దది లేదా సమానం.

(II) n divides $5n + 2013$.

$5n + 2013$ ను n భాగిస్తుంది.

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 11 Question Id : 2099632300 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

1. Data Sufficiency

దత్తాంశ పర్యాప్తత

What was the average speed for 1200 km trip?

1200 కి.మీ. దూరం ప్రయాణించడంలో సగటు వేగం ఎంత ?

(I) The first 400 km of the trip took 4 hours.

ఆ ప్రయాణంలో మొదటి 400 కి.మీ.లను ప్రయాణించడానికి 4 గంటలు పట్టింది.

(II) The last 800 km of the trip took 10 hours.

చివరి 800 కి.మీ. లను ప్రయాణించడానికి 10 గంటలు పట్టింది.

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 12 Question Id : 2099632301 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

1. Data Sufficiency

దత్తాంశ పర్యాప్తత

What is the value of $\log_c a$?

$\log_c a$ విలువ ఎంత ?

(I) $\log_a b = k$

(II) $\log_b c = l$

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 13 Question Id : 2099632302 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

1. Data Sufficiency

దత్తాంశ పర్యాప్తత

If a solid metallic cone is melted and recast into a sphere, then what is the radius of the sphere?

ఒక ఘన లోహపు శంఖువును కరిగించి ఒక గోళంగా తయారు చేస్తే, ఆ గోళం యొక్క వ్యాసార్థమెంత ?

(I) The radius of the cone is 5 cm.

ఆ శంఖువు యొక్క వ్యాసార్థం 5 సెం.మీ.

(II) The height of the cone is 10 times its radius.

ఆ శంఖువు ఎత్తు దాని వ్యాసార్థానికి 10 రెట్లు.

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 14 Question Id : 2099632303 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

1. Data Sufficiency

దత్తాంశ పర్యాప్తత

Which is the most efficient among the machines A, B, C ?

A, B, C యంత్రాలలో అత్యంత ఎక్కువ దక్షతను కలిగినది ఏది ?

(I) 3 hours running time of A is same as 4 hours running time of B .

A యొక్క మూడు గంటల పనితనం అనేది, B యొక్క 4 గంటల పనితనానికి సమానం.

(II) 4 hours running time of A is same as 5 hours running time of C

A యొక్క 4 గంటల పనితనం అనేది C యొక్క 5 గంటల పనితనానికి సమానం.

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 15 Question Id : 2099632304 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

1. Data Sufficiency

దత్తాంశ పర్యాప్తత

What is the salary of A?

A యొక్క జీతం ఎంత ?

(I) A gets 20% less than B's salary and B gets 50% more than that of C.

B జీతం కన్నా A యొక్క జీతం 20% తక్కువ మరియు C జీతం కన్నా B జీతం 50% ఎక్కువ

(II) C's salary is Rs.50000.

C యొక్క జీతం రూ. 50000.

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 16 Question Id : 2099632305 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

1. Data Sufficiency

దత్తాంశ పర్యాప్తత

Can we construct the triangle ABC ?

త్రిభుజం ABC ని నిర్మించగలమా ?

(I) AB = 2cm, BC = 3cm, CA = 6 cm

AB = 2 సెం.మీ., BC = 3 సెం.మీ., CA = 6 సెం.మీ.

(II) BC > CA > AB

Options :

1. ✓ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 17 Question Id : 2099632306 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

1. Data Sufficiency

దత్తాంశ పర్యాప్తత

Is y positive?

y ధనాత్మకమా?

(I) $x^2 + y < 0$

(II) $x - y > 0$

Options :

1. ✓ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 18 Question Id : 2099632307 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

1. Data Sufficiency

దత్తాంశ పర్యాప్తత

What is the average of a, b, c, d ?

a, b, c, d ల సరాసరి ఎంత?

(I) $a + b = c + d + 6$

(II) $c + d = 10$

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 19 Question Id : 2099632308 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

1. Data Sufficiency

దత్తాంశ పర్యాప్తత

Are $\triangle ABC$ and $\triangle PQR$ of same area?

$\triangle ABC$ మరియు $\triangle PQR$ లు సమానమైన వైశాల్యం ను కలిగి ఉంటాయా?

(I) $BC = QR$

(II) $\angle B = \angle Q$

Options :

1. ✓ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 20 Question Id : 2099632309 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

1. Data Sufficiency

దత్తాంశ పర్యాప్తత

Find the prime number p .

ప్రధానసంఖ్య p ను కనుక్కోండి.

(I) $719 < p < 727$

(II) $p \geq 727$

Options :

1. ✓ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Sub-Section Number: 2
Sub-Section Id: 209963255
Question Shuffling Allowed : Yes

Question Number : 21 Question Id : 2099632310 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

సమస్య సాధన

A. Series (Analogies/a:b::c:d relationships) శ్రేణులు

A(3)(2)D : I(11)(10)L :: E(7)(6)H : N() () R

- (1) (11)(16)
- (2) (16)(15)
- (3) (16)(14)
- (4) (12)(16)

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 22 Question Id : 2099632311 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

సమస్య సాధన

A. Series (Analogies/a:b::c:d relationships) శ్రేణులు

ABODE : BC14EF :: GENRE : _____

- (1) HF13SF
- (2) HF14SF
- (3) HF15SF
- (4) HF16SF

Options :

1. ✓ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 23 Question Id : 2099632312 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

సమస్య సాధన

A. Series (Analogies/a:b::c:d relationships) శ్రేణులు

$$x^2 + 4x + 4 : x^3 + 6x^2 + 12x + 8 :: x^2 - 4x + 4 : \underline{\hspace{2cm}} .$$

(1) $x^3 - x^2 - x - 1$

(2) $x^2 - 6x^2 + 11x - 6$

(3) $x^2 + 6x^2 + 11x + 7$

(4) $x^3 - 6x^2 + 12x - 8$

Options :

1. ✓ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 24 Question Id : 2099632313 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

సమస్య సాధన

A. Series (Analogies/a:b::c:d relationships)

శ్రేణులు

$$\frac{CFI}{126} : \frac{DHL}{224} :: \frac{EJO}{350} : \text{---}$$

(1) $\frac{FLR}{504}$

(2) $\frac{FLR}{324}$

(3) $\frac{FLR}{18}$

(4) $\frac{FLR}{216}$

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 25 Question Id : 2099632314 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

సమస్య సాధన

A. Series (Analogies/a:b::c:d relationships)

శ్రేణులు

B 3 F : C 3 I :: J 2 T : D ___ X

(1) 4

(2) 5

(3) 6

(4) 7

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 26 Question Id : 2099632315 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

సమస్య సాధన

A. Series (Analogies/a:b::c:d relationships)

శ్రేణులు

ROUND : NDURO :: CAKES : _____

- (1) EKSCA
- (2) ESKAC
- (3) ESKCA
- (4) ESCKA

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 27 Question Id : 2099632316 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

సమస్య సాధన

A. Series (Analogies/a:b::c:d relationships)

శ్రేణులు

DEF : 360 :: HIJ : _____.

(1) 2810

(2) 2180

(3) 2020

(4) 2160

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 28 Question Id : 2099632317 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

సమస్య సాధన

A. Series (Analogies/a:b::c:d relationships)

శ్రేణులు

217 : 344 :: 730 : _____.

- (1) 999
- (2) 1332
- (3) 1001
- (4) 513

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 29 Question Id : 2099632318 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

సమస్య సాధన

A. Series (Analogies/a:b::c:d relationships)

శ్రేణులు

$$7 + 2\sqrt{12} : 2 + \sqrt{3} :: \underline{\hspace{2cm}} : 2 + \sqrt{5}$$

- (1) $9 + \sqrt{5}$
- (2) $9 + 2\sqrt{5}$
- (3) $9 + 3\sqrt{5}$
- (4) $9 + 4\sqrt{5}$

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 30 Question Id : 2099632319 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

సమస్య సాధన

A. Series (Analogies/a:b::c:d relationships)

శ్రేణులు

$$\text{FUSTY (YUTSF) : VYING (GNIYV) :: WILGA (GILWA) : YAMEN (\underline{\hspace{2cm}})$$

- (1) NAMEY
- (2) NAMDY
- (3) NEMAY
- (4) AMENY

Options :

1. ✓ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Sub-Section Number: 3
Sub-Section Id: 209963256
Question Shuffling Allowed : Yes

Question Number : 31 Question Id : 2099632320 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

సమస్య సాధన

A. Series (Odd things out)

శ్రేణులు

10, 30, 68, 130, 220, 350, 520

(1) 68

(2) 10

(3) 350

(4) 220

Options :

1. ✓ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 32 Question Id : 2099632321 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

A. Series (Odd things out)

సమస్య సాధన

శ్రేణులు

112, 100, 90, 80, 76, 72, 70

(1) 90

(2) 80

(3) 76

(4) 72

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 33 Question Id : 2099632322 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

సమస్య సాధన

A. Series (Odd things out)

శ్రేణులు

0, 0, 2, 3, 6, 10, 15,

(1) 2

(2) 3

(3) 15

(4) 6

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 34 Question Id : 2099632323 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

సమస్య సాధన

A. Series (Odd things out)

శ్రేణులు

ESOR, YLIL, SUTOL, NOMEL, SPILUT, DLOGIRAM, AILLEMAC

(1) ESOR

(2) YLIL

(3) NOMEL

(4) SUTOL

Options :

1. ✓ 1

2. ✘ 2

3. ✘ 3

4. ✘ 4

Question Number : 35 Question Id : 2099632324 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

సమస్య సాధన

A. Series (Odd things out)

శ్రేణులు

22, 32, 44, 58, 74, 92, 111, 134

(1) 92

(2) 111

(3) 134

(4) 74

Options :

1. ✓ 1

2. ✘ 2

3. ✘ 3

4. ✘ 4

Sub-Section Number: 4
Sub-Section Id: 209963257
Question Shuffling Allowed : Yes

Question Number : 36 Question Id : 2099632325 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

A. Series (Missing numbers in sequence or series)

ಶ್ರೇಣಿಗಳು

5, 64, 15, 192, 60, 768, 300, _____, 1800

(1) 3840

(2) 3640

(3) 3740

(4) 3940

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 37 Question Id : 2099632326 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

A. Series (Missing numbers in sequence or series)

ಶ್ರೇಣಿಗಳು

2.8, 5.6, 8.4, 11.2, _____, 16.8, 19.6

(1) 12.2

(2) 13.2

(3) 15.2

(4) 14.2

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 38 Question Id : 2099632327 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

A. Series (Missing numbers in sequence or series)

ಶ್ರೇಣಿಗಳು

135135, _____, 945, 105, 15, 3

- (1) 10405
- (2) 10400
- (3) 10395
- (4) 10390

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 39 Question Id : 2099632328 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

A. Series (Missing numbers in sequence or series)

ಶ್ರೇಣಿಗಳು

380, 280, 199, _____, 86, 50, 25

(1) 150

(2) 145

(3) 140

(4) 135

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 40 Question Id : 2099632329 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

A. Series (Missing numbers in sequence or series)

ಶ್ರೇಣಿಗಳು

$$2, \frac{4}{\sqrt{3}}, \text{ ———— }, \frac{16}{3\sqrt{3}}, \frac{32}{9}$$

(1) $\frac{8}{3}$

(2) $\frac{8}{\sqrt{3}}$

(3) $\frac{8}{3\sqrt{3}}$

(4) 8

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 41 Question Id : 2099632330 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

A. Series (Missing numbers in sequence or series)

ಶ್ರೇಣಿಗಳು

$$\frac{\sqrt{2}+1}{\sqrt{2}-1}, \frac{1}{2-\sqrt{2}}, \text{ ---}, \frac{1}{4+\sqrt{8}}, \frac{1}{4(3+2\sqrt{2})}$$

- (1) $\frac{1}{2}$
- (2) $\frac{1}{\sqrt{2}}$
- (3) $\sqrt{2}$
- (4) $2\sqrt{2}$

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 42 Question Id : 2099632331 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

A. Series (Missing numbers in sequence or series)

ಶ್ರೇಣಿಗಳು

$$\frac{1}{2}, \frac{1}{\sqrt{2}}, \frac{\sqrt{3}}{2}, \text{---}, 1, \frac{\sqrt{3}-1}{2\sqrt{2}}, \frac{\sqrt{3}}{2}$$

(1) $\frac{\sqrt{3}-1}{2\sqrt{2}}$

(2) $\frac{\sqrt{3}+1}{\sqrt{2}}$

(3) $\frac{\sqrt{3}+1}{2\sqrt{2}}$

(4) $\frac{\sqrt{3}+1}{4}$

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 43 Question Id : 2099632332 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

A. Series (Missing numbers in sequence or series)

ಶ್ರೇಣಿಗಳು

5, 3, 12, 6, 30, 20, _____, 42

(1) 49

(2) 56

(3) 52

(4) 54

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 44 Question Id : 2099632333 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

A. Series (Missing numbers in sequence or series)

ಶ್ರೇಣಿಗಳು

AF, BL, CT, _____, EP, FD

(1) EE

(2) CC

(3) FF

(4) DD

Options :

1. ✓ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 45 Question Id : 2099632334 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

A. Series (Missing numbers in sequence or series)

ಕ್ರೀಡಲು

65, 64, 69, 66, 75, 68, 83, 70, _____, 72

(1) 87

(2) 89

(3) 91

(4) 93

Options :

1. ✓ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Sub-Section Number: 5
Sub-Section Id: 209963258
Question Shuffling Allowed : No

Question Id : 2099632335 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension
Questions : No Question Pattern Type : NonMatrix Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in
seconds) : 0 Calculator : None

Question Numbers : (46 to 48)

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

సమస్య సాధన

B. Data Analysis

దత్తాంశ విశ్లేషణ

The following table illustrates the number of candidates (in thousands) appeared for three entrance exams A, B, C over a five year period from 2019 to 2023.

2019 నుండి 2023 వరకు గల 5 సంవత్సరాల సమయంలో మూడు ప్రవేశ పరీక్షలు A, B, C లకు హాజరైన అభ్యర్థుల సంఖ్య (వేలలో)ను ఈ క్రింది పట్టిక వివరిస్తుంది.

Year సంవత్సరం	A	B	C
2019	220	49	13
2020	250	46	30
2021	220	57	40
2022	400	76	25
2023	310	72	42

Read the table carefully and answer the following questions 46 to 48.

ఈ పట్టికను జాగ్రత్తగా చదివి 46 నుండి 48 వరకు గల ప్రశ్నలకు సమాధానాలివ్వండి.

Sub questions

Question Number : 46 Question Id : 2099632336 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

సమస్య సాధన

B. Data Analysis

దత్తాంశ విశ్లేషణ

In the exam A, the percentage of increase in the number of candidates appeared in 2022 compared to 2021 is

పరీక్ష A లో 2021తో పోలిస్తే 2022లో హాజరైన అభ్యర్థుల సంఖ్యలో పెరుగుదల శాతం

- (1) 78
- (2) 89.2
- (3) 81.8
- (4) 72.3

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 47 Question Id : 2099632337 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

సమస్య సాధన

B. Data Analysis

దత్తాంశ విశ్లేషణ

What percent of candidates appeared for B in 2022 compared to all the candidates appeared for B during five years?

ఐదు సంవత్సరాలలో పరీక్ష B కు హాజరైన మొత్తం అభ్యర్థులతో పోలిస్తే 2022లో పరీక్ష B కు హాజరైన అభ్యర్థుల శాతమెంత ?

- (1) 24
- (2) 25.3
- (3) 26.3
- (4) 27

Options :

1. ✓ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 48 Question Id : 2099632338 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

సమస్య సాధన

B. Data Analysis

దత్తాంశ విశ్లేషణ

By what percent approximately is the maximum number of candidates appeared compared to its previous year in C?

పరీక్ష C కు ఏ సంవత్సరము లోనైతే గత సంవత్సరముతో పోలిస్తే హాజరైన అభ్యర్థుల శాతము

గరిష్టంగా ఉందో ఆ శాతం సుమారుగా

- (1) 125
- (2) 120
- (3) 57
- (4) 131

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Sub-Section Number: 6
Sub-Section Id: 209963259
Question Shuffling Allowed : No

Question Id : 2099632339 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No Question Pattern Type : NonMatrix Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Question Numbers : (49 to 51)

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

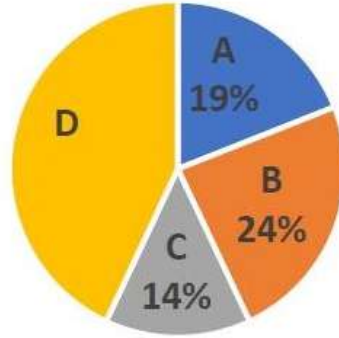
సమస్య సాధన

B. Data Analysis

దత్తాంశ విశ్లేషణ

There are 6600 employees in all in four companies A, B, C and D. The following pie chart shows percent wise distribution of the employees in these companies.

A, B, C, D అనే 4 కంపెనీలలో మొత్తం 6600 ఉద్యోగులు ఉన్నారు. ఈ కంపెనీలోని ఉద్యోగుల పంపిణీ శాతం లను ఈ క్రింది పీ చిత్రం సూచిస్తుంది.



The following table gives the male to female employees ratio in these four companies A, B, C and D.

ఈ నాలుగు కంపెనీలు A, B, C, D లో పురుషులు మరియు స్త్రీ ఉద్యోగుల నిష్పత్తిని ఈ క్రింది పట్టిక సూచిస్తుంది.

Company కంపెనీ	Male - Female Ratio పురుషుల - స్త్రీల నిష్పత్తి
A	2 : 1
B	5 : 4
C	1 : 3
D	5 : 6

Read these carefully and answer the following questions from 49 to 51.

వీటిని జాగ్రత్తగా చదివి 49 నుండి 51 వరకు గల ప్రశ్నలకు సమాధానాలివ్వండి.

Sub questions

Question Number : 49 Question Id : 2099632340 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

సమస్య సాధన

B. Data Analysis

దత్తాంశ విశ్లేషణ

The total number of female employees in all these four companies is

ఈ నాలుగు కంపెనీలలో గల మొత్తం స్త్రీ ఉద్యోగుల సంఖ్య

(1) 3363

(2) 3364

(3) 3365

(4) 3366

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 50 Question Id : 2099632341 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

సమస్య సాధన

B. Data Analysis

దత్తాంశ విశ్లేషణ

The total number of male employees in companies A and B is

A, B కంపెనీలలో గల మొత్తం పురుష ఉద్యోగుల సంఖ్య

- (1) 1734
- (2) 1725
- (3) 1716
- (4) 1737

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 51 Question Id : 2099632342 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

సమస్య సాధన

B. Data Analysis

దత్తాంశ విశ్లేషణ

The total number of female employees in the companies C and D is

C, D కంపెనీలలో గల మొత్తం స్త్రీ ఉద్యోగుల సంఖ్య

(1) 2240

(2) 2241

(3) 2242

(4) 2243

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Sub-Section Number: 7
Sub-Section Id: 209963260
Question Shuffling Allowed : No

Question Id : 2099632343 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No Question Pattern Type : NonMatrix Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Question Numbers : (52 to 55)

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

సమస్య సాధన

B. Data Analysis

దత్తాంశ విశ్లేషణ

Let S be the set of first 200 natural numbers, A be the set of all multiples of 3 in S , B be the set of all multiples 5 in S and C be the set of all multiples of 7 in S .

Based on this information answer the questions from 52-55.

మొదటి 200 సహజ సంఖ్యలను మూలకాలుగా కలిగిన సమితిని S గా గైకొనుము. సమితిలోని 3 గుణిజాల సమితిని A గా, 5 గుణిజాల సమితిని B గానూ, 7 గుణిజాల సమితిని C గా తీసికొనుము. ఈ సమాచారం ఆధారంగా 52-55 వరకు గల ప్రశ్నలకు సమాధానాలు ఇవ్వండి.

Sub questions

Question Number : 52 Question Id : 2099632344 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

సమస్య సాధన

B. Data Analysis

దత్తాంశ విశ్లేషణ

The number of elements of S which are divisible by 3 and 5 but not 7 is

సమితి S లో 3 మరియు 5 లచే భాగించబడుతూ 7 చేత భాగించబడని మూలకాల సంఖ్య

- (1) 12
- (2) 4
- (3) 8
- (4) 15

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 53 Question Id : 2099632345 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

సమస్య సాధన

B. Data Analysis

దత్తాంశ విశ్లేషణ

The number of elements of S which are not divisible by any of 3, 5 and 7 is

సమితి Sలో 3, 5 మరియు 7లలో వేటితోనూ భాగించబడని మూలకాల సంఖ్య

- (1) 62
- (2) 72
- (3) 82
- (4) 92

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 54 Question Id : 2099632346 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

సమస్య సాధన

B. Data Analysis

దత్తాంశ విశ్లేషణ

The number of elements of S which are divisible by all the three numbers 3, 5 and 7 is

సమితి S లో 3, 5 మరియు 7 లు మూడింటిచే భాగించబడే మూలకాల సంఖ్య

- (1) 1
- (2) 2
- (3) 3
- (4) 4

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 55 Question Id : 2099632347 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

సమస్య సాధన

B. Data Analysis

దత్తాంశ విశ్లేషణ

The number of elements of S which are exactly divisible by any two of 3, 5 and 7 is

సమితి S లో 3,5 మరియు 7 లలో సరిగ్గా ఏవేని రెండింటికీ భాగించబడే మూలకాల సంఖ్య

(1) 16

(2) 20

(3) 24

(4) 12

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Sub-Section Number:

8

Sub-Section Id:

209963261

Question Shuffling Allowed :

No

Question Id : 2099632348 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No Question Pattern Type : NonMatrix Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Question Numbers : (56 to 60)

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

సమస్య సాధన

C. Coding and Decoding Problems

కోడింగ్ మరియు డీకోడింగ్ సమస్యలు

In the English alphabet, each vowel is coded to its next second vowel cyclically i.e., *U* is coded as *E*, *O* is coded as *A* ... and each consonant is coded to its second right consonant cyclically. i.e., *Z* is coded as *C*, *X* is coded to *Z*, *Y* is coded to *B* etc.

Using this coding procedure, answer the questions from 56-60.

ఆంగ్ల వర్ణమాలలోని అక్షరాలను ఈ విధంగా కోడ్ చేసిరి. ప్రతి అచ్చును చక్రీయంగా దాని తరువాతి రెండవ అచ్చుకి కోడ్ చేశారు. ఉదా. Uను Eగాను, Oను Aగానూ కోడ్ చేశారు. ప్రతి హల్లును దాని తరువాతి రెండవ హల్లుకి చక్రీయంగా కోడ్ చేసిరి. ఉదా. Z ను Cగానూ, X ను Zగానూ, Yను B గానూ కోడ్ చేశారు.

ఈ కోడింగ్ పద్ధతిని ఉపయోగించి 56 నుండి 60 వరకు గల ప్రశ్నలకు సమాధానాలిమ్ము.

Sub questions

Question Number : 56 Question Id : 2099632349 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

సమస్య సాధన

C. Coding and Decoding Problems

కోడింగ్ మరియు డీకోడింగ్ సమస్యలు

Code word for JASMINE is

JASMINE కు కోడ్ పదం

- (1) LIVQUPO
- (2) LIVPWRO
- (3) LIVPUQO
- (4) LIVPXRO

Options :

1. ✓ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 57 Question Id : 2099632350 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

సమస్య సాధన

C. Coding and Decoding Problems

కోడింగ్ మరియు డీకోడింగ్ సమస్యలు

Which word is coded as LOTUS?

ఏ పదం LOTUS గా కోడ్ చేయబడింది?

(1) JERIQ

(2) JERIP

(3) JERIR

(4) JERJQ

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 58 Question Id : 2099632351 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

సమస్య సాధన

C. Coding and Decoding Problems

కోడింగ్ మరియు డీకోడింగ్ సమస్యలు

Code word for COMMON

COMMON కు కోడ్ పదం

- (1) FAQPAQ
- (2) FASSAQ
- (3) FAPPBQ
- (4) FAPPAQ

Options :

1. ✓ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 59 Question Id : 2099632352 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

సమస్య సాధన

C. Coding and Decoding Problems

కోడింగ్ మరియు డీకోడింగ్ సమస్యలు

SOLDIER is code word for

దేనికి SOLDIER అనేది కోడ్ పదం?

- (1) QEJABUP
- (2) QEJBAUP
- (3) QEJBAPV
- (4) QFJBAUP

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 60 Question Id : 2099632353 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

సమస్య సాధన

C. Coding and Decoding Problems

కోడింగ్ మరియు డీకోడింగ్ సమస్యలు

KARGIL is the code for

దేనికి KARGIL కోడ్ పదం?

- (1) HOQDAJ
- (2) HORDAJ
- (3) HOPDAJ
- (4) HOPDBJ

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Sub-Section Number: 9
Sub-Section Id: 209963262
Question Shuffling Allowed : Yes

Question Number : 61 Question Id : 2099632354 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

సమస్య సాధన

C. Coding and Decoding Problems

కోడింగ్ మరియు డీకోడింగ్ సమస్యలు

EDUCATION is coded as 274563801 and DICTATION is coded as 785363801,
then the code for ADDICT

EDUCATION ని 274563801 గాను, DICTATION ని 785363801 గాను కోడ్
చేసినచో, ADDICT యొక్క కోడ్

- (1) 675583
- (2) 676583
- (3) 677883
- (4) 677853

Options :

- 1. ✓ 1
- 2. ✗ 2
- 3. ✗ 3
- 4. ✗ 4

Question Number : 62 Question Id : 2099632355 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

సమస్య సాధన

C. Coding and Decoding Problems

కోడింగ్ మరియు డీకోడింగ్ సమస్యలు

If CLIENT is coded as ENEAPV, then the word coded as ECPEXG is

CLIENT ను ENEAPV గా కోడ్ చేస్తే, ECPEXG గా కోడ్ చేయబడిన పదం

- (1) ACTIVE
- (2) CTAVIE
- (3) ATCEVI
- (4) CATIVE

Options :

1. ✓ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 63 Question Id : 2099632356 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

సమస్య సాధన

C. Coding and Decoding Problems

కోడింగ్ మరియు డీకోడింగ్ సమస్యలు

If NEAR is coded as 66 and COLD is coded as 70, then the code of DOWN is

NEAR ను 66 గానూ, COLD ను 70 గానూ కోడ్ చేసినపుడు, DOWN యొక్క కోడ్

- (1) 70
- (2) 68
- (3) 58
- (4) 48

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 64 Question Id : 2099632357 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

సమస్య సాధన

C. Coding and Decoding Problems

కోడింగ్ మరియు డీకోడింగ్ సమస్యలు

If REPAIR is coded as 67 and ABILITY is coded as 78, then the code for CODE is

REPAIR ని 67 గాను మరియు ABILITY ని 78 గా కోడ్ చేసినచో, CODE యొక్క కోడ్

- (1) 25
- (2) 26
- (3) 27
- (4) 28

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 65 Question Id : 2099632358 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

సమస్య సాధన

C. Coding and Decoding Problems

కోడింగ్ మరియు డీకోడింగ్ సమస్యలు

If KRISHNA is coded as RXNWKPB, then the code of YAMUNA is

KRISHNA ను RXNWKPB గా కోడ్ చేయబడినపుడు, YAMUNA యొక్క కోడ్

- (1) EFXQPB
- (2) EFQXPB
- (3) EFQXBP
- (4) FEQXPB

Options :

1. ✓ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Sub-Section Number: 10
Sub-Section Id: 209963263
Question Shuffling Allowed : Yes

Question Number : 66 Question Id : 2099632359 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

సమస్య సాధన

D. Date and Time & Arrangement Problems

తేది, సమయం మరియు అమరికల సమస్యలు

If 8th December, 2007 was Saturday, then which day of the week was on 8th December, 1980?

డిసెంబర్ 8, 2007 శని వారం అయితే, డిసెంబర్ 8, 1980 వారంలో ఏ రోజు అయ్యి ఉండెను?

- | | |
|--------------|-----------|
| (1) Sunday | ఆదివారం |
| (2) Saturday | శని వారం |
| (3) Tuesday | మంగళ వారం |
| (4) Monday | సోమ వారం |

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 67 Question Id : 2099632360 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

సమస్య సాధన

D. Date and Time & Arrangement Problems

తేది, సమయం మరియు అమరికల సమస్యలు

If α, β are the acute angles between the hour hands and minute hands of a clock when the time is 7.26 and 7.36 respectively, then $\alpha - \beta$ is (in degrees)

గడియారంలో సమయం 7.26, 7.36 ని. అయినప్పుడు గంటల ముల్లు మరియు నిమిషాల ముల్లల మధ్య లఘు కోణాలు α, β లు అయినప్పుడు, $\alpha - \beta =$ (డిగ్రీలలో)

- (1) 65
- (2) 55
- (3) 79
- (4) 45

Options :

- 1. ✓ 1
- 2. ✗ 2
- 3. ✗ 3
- 4. ✗ 4

Question Number : 68 Question Id : 2099632361 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

సమస్య సాధన

D. Date and Time & Arrangement Problems

తేది, సమయం మరియు అమరికల సమస్యలు

If time in a clock is 8.40, what time does its mirror image show?

గడియారంలో 8.40 సమయాన దాని యొక్క దర్పణ ప్రతిబింబం చూపే సమయం ఎంత?

(1) 3.10

(2) 3.20

(3) 3.30

(4) 3.40

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 69 Question Id : 2099632362 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

సమస్య సాధన

D. Date and Time & Arrangement Problems

తేది, సమయం మరియు అమరికల సమస్యలు

A man said to a woman “Your father’s only sister is my mother”. How is related that man with the women’s father?

ఒక పురుషుడు ఒక స్త్రీతో ఈ విధంగా చెప్తాడు “మీ నాన్న యొక్క ఏకైక సోదరి మా అమ్మ” ఆ పురుషుడు ఆ స్త్రీ తండ్రితో ఎలాంటి బంధుత్వాన్ని కలిగి ఉన్నాడు ?

- | | |
|----------------|-----------|
| (1) Son-in-law | అల్లుడు |
| (2) Son | కొడుకు |
| (3) Father | తండ్రి |
| (4) Nephew | మేనల్లుడు |

Options :

1. ✓ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 70 Question Id : 2099632363 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

సమస్య సాధన

D. Date and Time & Arrangement Problems

తేది, సమయం మరియు అమరికల సమస్యలు

Mohan starts walking from A. Having walked for 400m he turns left walks for 300m and turns to right and walk for 300m. Then he turns again right and walks a distance of 800m and then turns left walks for 500m and reaches the point B. Then, the distance between A and B (in meters) is

A అనే బిందువు నుండి మోహన్ నడకను ప్రారంభించి 400మీ. నడచిన తరువాత ఎడమవైపుకు తిరిగి 300మీ. నడిచెను. తర్వాత కుడివైపుకు తిరిగి మరల 300మీ. దూరం నడిచెను. అక్కడ కుడివైపుకు తిరిగి 800మీ. దూరం నడిచిన పిదప ఎడమ వైపుకు తిరిగి 500మీ. నడిచి B అనే బిందువును చేరెను. అప్పుడు A, Bల మధ్య దూరం (మీ. లలో)

- (1) 1300
- (2) 1200
- (3) 1100
- (4) 1400

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 71 Question Id : 2099632364 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

సమస్య సాధన

D. Date and Time & Arrangement Problems

తేది, సమయం మరియు అమరికల సమస్యలు

A cyclist Anvesh makes a trip of 42 km. He leaves 6 minutes late, but travels 1 kmph faster and arrives on time. Then the speed of the cyclist is

అన్వేష్ తన సైకిల్ పై 42కి.మీ. ట్రిప్ కి వెళ్ళాలనుకుంటాడు. 6ని.లు ఆలస్యంగా బయలు దేరడం వల్ల గంటకు ఒక కి.మీ. వేగాన్ని పెంచి సరైన సమయానికి చేరుకుంటాడు. అప్పుడు సైకిలిస్ట్ యొక్క వేగం (గం./కి.మీ.లలో)

- (1) 20
- (2) 21
- (3) 22
- (4) 23

Options :

- 1. ✓ 1
- 2. ✗ 2
- 3. ✗ 3
- 4. ✗ 4

Question Number : 72 Question Id : 2099632365 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

సమస్య సాధన

D. Date and Time & Arrangement Problems

తేది, సమయం మరియు అమరికల సమస్యలు

Five persons A, B, C, D and E are seated around a circular table facing the centre. C is the first to the left A and is also to first to the right of D. B is not immediate neighbour to A. Who is to the second left of D?

ఐదుగురు వ్యక్తులు A, B, C, D, E లు ఒక వృత్తాకార బల్ల చుట్టూ కేంద్రాభిముఖంగా కూర్చోన్నారు. A కు ఎడమ ప్రక్కన మొదటి వ్యక్తిగా ఉన్నది C యే కాక అతడు Dకి కుడి వైపున గల మొదటి వ్యక్తి కూడా, Aకి ఎటువైపు పొరుగున Bలేడు. అప్పుడు, D కు ఎడమ ప్రక్కన ఉన్న రెండవ వ్యక్తి ఎవరు?

- (1) A
- (2) B
- (3) C
- (4) E

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 73 Question Id : 2099632366 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

సమస్య సాధన

D. Date and Time & Arrangement Problems

తేది, సమయం మరియు అమరికల సమస్యలు

Let m, n be any two integers. If $m * n = m^2 + mn + n^2$ and

$$m \oplus n = m^2 - mn + n^2, \text{ then } (1 * 2) \oplus (3 * 1) =$$

m, n లను ఏవేని పూర్ణ సంఖ్యలుగా గైకొనుము.

$$m * n = m^2 + mn + n^2 \text{ మరియు}$$

$$m \oplus n = m^2 - mn + n^2 \text{ అయినప్పుడు, } (1 * 2) \oplus (3 * 1) =$$

(1) 127

(2) 37

(3) 137

(4) 217

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 74 Question Id : 2099632367 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

సమస్య సాధన

D. Date and Time & Arrangement Problems

తేది, సమయం మరియు అమరికల సమస్యలు

Define $a \oplus b = a + b + 1$,

$a \otimes b = a + b + ab$, $a, b \in \mathbb{Z}$. Then,

the solution of $x \otimes (5 \oplus x) = 5 \otimes (x \oplus x)$ which is positive is

$a, b \in \mathbb{Z}$ లకు $a \oplus b = a + b + 1$

$a \otimes b = a + b + ab$ గా నిర్వచించండి. అప్పుడు

$x \otimes (5 \oplus x) = 5 \otimes (x \oplus x)$ యొక్క ధనాత్మక సాధన

(1) 4

(2) 6

(3) 5

(4) 7

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 75 Question Id : 2099632368 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

సమస్య సాధన

D. Date and Time & Arrangement Problems

తేది, సమయం మరియు అమరికల సమస్యలు

$$\text{Let } x \downarrow y = \frac{x}{y} + \frac{y}{x},$$

$$x \uparrow y = x^y + y^x.$$

$$\text{If } 5 \downarrow (2 \uparrow (-4)) = \frac{p}{q} + \frac{q}{p} \text{ (} p < q \text{), then } p =$$

$$x \downarrow y = \frac{x}{y} + \frac{y}{x},$$

$$x \uparrow y = x^y + y^x \text{ అనుకోండి.}$$

$$5 \downarrow (2 \uparrow (-4)) = \frac{p}{q} + \frac{q}{p} \text{ (} p < q \text{) అయితే, } p =$$

- (1) 80
- (2) 90
- (3) 85
- (4) 100

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Mathematical Ability

Section Id :

20996335

Section Number :

2

Section type :

Online

Mandatory or Optional:

Mandatory

Number of Questions to be attempted:

75

Section Marks:

75

Maximum Instruction Time :

0

Sub-Section Number:

1

Sub-Section Id:

209963264

Question Shuffling Allowed :

Yes

Question Number : 76 Question Id : 2099632369 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability

అంకగణిత సామర్థ్యం

$$\frac{\left(\frac{29}{33}\right)^3 + \frac{9}{11} \times \frac{29}{33} \times \frac{38}{33} + \left(\frac{3}{11}\right)^3}{\left(\frac{29}{33} + \frac{3}{11}\right)^2} =$$

(1) $\frac{37}{33}$

(2) $\frac{39}{33}$

(3) $\frac{38}{33}$

(4) $\frac{41}{33}$

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 77 Question Id : 2099632370 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability

అంకగణిత సామర్థ్యం

If $9^x = 27^y = 81^z$ and $\frac{1}{6x} + \frac{1}{9y} + \frac{1}{12z} = 25$, then $x + y + z =$

$9^x = 27^y = 81^z$ మరియు $\frac{1}{6x} + \frac{1}{9y} + \frac{1}{12z} = 25$ అయితే, $x + y + z =$

(1) $\frac{11}{300}$

(2) $\frac{13}{25}$

(3) $\frac{13}{300}$

(4) $\frac{17}{230}$

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 78 Question Id : 2099632371 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability

అంకగణిత సామర్థ్యం

If $(a + b) : (a - b) = 3 : 2$, then $\left(\frac{a^4 - b^4}{a^4 + b^4}\right) =$

$(a + b) : (a - b) = 3 : 2$ అయితే, $\left(\frac{a^4 - b^4}{a^4 + b^4}\right) =$

(1) $\frac{313}{312}$

(2) $\frac{62}{63}$

(3) $\frac{63}{62}$

(4) $\frac{312}{313}$

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 79 Question Id : 2099632372 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability

అంకగణిత సామర్థ్యం

A merchant brings two types of rice costing Rs.50 per kg and Rs.60 per kg. He then mixes two types of rice in some ratio and sells at the rate of Rs.65 per kg and earns a profit of 20%. Then the ratio in which he mixed two types of rice is

ఒక వ్యాపారి కి.గ్రా. కి రూ. 50, కి.గ్రా.కి రూ.60 ధరతో రెండు రకాల బియ్యం ను కొని వాటిని ఒకానొక నిష్పత్తిలో ఆ రెండురకాల బియ్యం లను కలిపి తిరిగి కి.గ్రా. కి రూ.65 చొప్పున అమ్మి 20% లాభాన్ని ఆర్జించెను. అప్పుడు, ఆ రెండు రకాల బియ్యాలను కలిపిన నిష్పత్తి

- (1) 6 : 5
- (2) 7 : 5
- (3) 8 : 5
- (4) 9 : 7

Options :

- 1. ✓ 1
- 2. ✗ 2
- 3. ✗ 3
- 4. ✗ 4

Question Number : 80 Question Id : 2099632373 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability

అంకగణిత సామర్థ్యం

$$\frac{3+\sqrt{5}}{\sqrt{2}+\sqrt{3+\sqrt{5}}} + \frac{3-\sqrt{5}}{\sqrt{2}-\sqrt{3-\sqrt{5}}} =$$

- (1) $\sqrt{2}$
- (2) $3\sqrt{2}$
- (3) $\frac{1}{\sqrt{2}}$
- (4) $2\sqrt{2}$

Options :

- 1. ✓ 1
- 2. ✗ 2
- 3. ✗ 3
- 4. ✗ 4

Question Number : 81 Question Id : 2099632374 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability

అంకగణిత సామర్థ్యత

$$a = \sqrt{4 + \sqrt{7}}, \quad b = \sqrt{4 - \sqrt{7}} \Rightarrow a + b =$$

- (1) 14
- (2) $\sqrt{14}$
- (3) 8
- (4) $\sqrt{28}$

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 82 Question Id : 2099632375 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability

అంకగణిత సామర్థ్యత

Which of the following statements is true?

ఈ క్రింది ప్రవచనాలలో ఏది సత్యం ?

(1) 14762 is divisible by 4.

4 చేత 14762 భాగించబడుతుంది.

(2) 14764 is divisible by 7.

7 చేత 14764 భాగించబడుతుంది.

(3) 14769 is divisible by 9.

9 చేత 14769 భాగించబడుతుంది.

(4) 15742 is divisible by 11

11 చేత 15742 భాగించబడుతుంది.

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 83 Question Id : 2099632376 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability

అంకగణిత సామర్థ్యత

When the number $13 \times 14 \times 17 \times 19 \times 25$ is divided by 100, the remainder is

$13 \times 14 \times 17 \times 19 \times 25$ ను 100 చే భాగించగా వచ్చే శేషం

(1) 30

(2) 40

(3) 50

(4) 60

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 84 Question Id : 2099632377 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability

అంకగణిత సామర్థ్యత

If LCM of 1, 2, 3, ..., 60 is N, then LCM of 1, 2, 3, ..., 60, 61, 62, 63, 64, 65

(in terms of N) is

1, 2, 3, ..., 60 ల క.సా.గు. N అయితే, 1, 2, 3, ..., 60, 61, 62, 63, 64, 65

(N పదాలలో) ల క.సా.గు.

(1) 61N

(2) 63N

(3) 65N

(4) 62N

Options :

1. ✓ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 85 Question Id : 2099632378 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability

అంకగణిత సామర్థ్యత

Suppose LCM of two numbers a, b is ($a < b$) 40 times HCF of a, b . Then possible number of pairs (a, b) is

a, b ($a < b$) ల క.సా.గు. అనేది a, b ల గ.సా.భా.కు 40 రెట్లు అయితే, వీలయ్యే క్రమయుగ్మాలు (a, b) ల సంఖ్య

(1) 2

(2) 3

(3) 4

(4) 5

Options :

1. ✓ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 86 Question Id : 2099632379 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability

అంకగణిత సామర్థ్యం

$$0.2 + 0.23 + 0.234 + 0.2345 = \frac{p}{q} \text{ (in lowest form) } \Rightarrow q - p =$$

$$0.2 + 0.23 + 0.234 + 0.2345 = \frac{p}{q} \text{ (సూక్ష్మరూపం లో) } \Rightarrow q - p =$$

(1) 201

(2) 203

(3) 205

(4) 207

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 87 Question Id : 2099632380 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability

అంకగణిత సామర్థ్యత

$$\left(1 - \frac{1}{2}\right) \left(1 - \frac{2}{3}\right) \left(1 - \frac{3}{4}\right) \left(1 - \frac{4}{5}\right) \dots \left(1 - \frac{2023}{2024}\right) = x \implies \frac{1}{x} =$$

- (1) 2024
- (2) 2023
- (3) (2023)!
- (4) (2024)!

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 88 Question Id : 2099632381 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability

అంకగణిత సామర్థ్యం

Descending order of the numbers

$$\frac{65}{63}, \frac{217}{215}, \frac{9}{7}, \frac{63}{62}, \frac{14}{13} \text{ is}$$

$$\frac{65}{63}, \frac{217}{215}, \frac{9}{7}, \frac{63}{62}, \frac{14}{13} \text{ ల అవరోహణా క్రమం}$$

$$(1) \frac{9}{7}, \frac{65}{63}, \frac{63}{62}, \frac{14}{13}, \frac{217}{215}$$

$$(2) \frac{9}{7}, \frac{14}{13}, \frac{65}{63}, \frac{63}{62}, \frac{217}{215}$$

$$(3) \frac{217}{215}, \frac{9}{7}, \frac{14}{13}, \frac{65}{63}, \frac{63}{62}$$

$$(4) \frac{63}{62}, \frac{9}{7}, \frac{14}{13}, \frac{65}{63}, \frac{217}{215}$$

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 89 Question Id : 2099632382 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability

అంకగణిత సామర్థ్యం

Decreasing order of the numbers

$3\sqrt{3} - \sqrt{26}, \sqrt{19} - 3\sqrt{2}, \sqrt{13} - 2\sqrt{3}, \sqrt{17} - 4, 5 - 2\sqrt{6}$ is

$3\sqrt{3} - \sqrt{26}, \sqrt{19} - 3\sqrt{2}, \sqrt{13} - 2\sqrt{3}, \sqrt{17} - 4, 5 - 2\sqrt{6}$ ల అవరోహణా క్రమం

(1) $\sqrt{17} - 4, 3\sqrt{3} - \sqrt{26}, 5 - 2\sqrt{6}, \sqrt{19} - 3\sqrt{2}, \sqrt{13} - 2\sqrt{3}$

(2) $\sqrt{19} - 3\sqrt{2}, 3\sqrt{3} - \sqrt{26}, 5 - 2\sqrt{6}, \sqrt{17} - 4, \sqrt{13} - 2\sqrt{3}$

(3) $5 - 2\sqrt{6}, 3\sqrt{3} - \sqrt{26}, \sqrt{19} - 3\sqrt{2}, \sqrt{17} - 4, \sqrt{13} - 2\sqrt{3}$

(4) $3\sqrt{3} - \sqrt{26}, 5 - 2\sqrt{6}, \sqrt{19} - 3\sqrt{2}, \sqrt{17} - 4, \sqrt{13} - 2\sqrt{3}$

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 90 Question Id : 2099632383 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability

అంకగణిత సామర్థ్యత

If $(3a + 2b)$ percent of $3a + 2b + c$ is double the $(3a + c)$ percent of $3a + 2b + c$ then the relation between a, b, c is

$3a + 2b + c$ లో $(3a + 2b)$ శాతం, $3a + 2b + c$ లో $(3a + c)$ శాతానికి రెండు రెట్లు అయినప్పుడు, a, b, c ల మధ్య సంబంధము

- (1) $3a + 2c = 2b$
- (2) $a + 3c = 3b$
- (3) $a + c = b$
- (4) $a + b = 10c$

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 91 Question Id : 2099632384 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability

అంకగణిత సామర్థ్యత

A cylinder C and cone D are of same height h and base radius r . If cone D's radius increased by 10% and cylinder C's height is increased by 10%, then the ratio of volumes of C and D is

ఒకే ఎత్తు h , భూవ్యాసార్థం r లు గల ఒక స్థూపం C, శంఖువు D లు కలవు. శంఖువు D వ్యాసార్థం ను 10% పెంచితే మరియు స్థూపం ఎత్తును 10% పెంచితే, C, D ల ఘనపరిమాణాల నిష్పత్తి

- (1) 30 : 23
- (2) 28 : 11
- (3) 30 : 11
- (4) 32 : 11

Options :

- 1. ✓ 1
- 2. ✗ 2
- 3. ✗ 3
- 4. ✗ 4

Question Number : 92 Question Id : 2099632385 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability

అంకగణిత సామర్థ్యత

An article's cost price is Rs.900. By allowing a discount of 10%, the shop keeper gets 10% profit. Then what is the marked price of the article (in rupees)?

ఒక వస్తువు యొక్క కొన్నవెల రూ. 900. 10% తగ్గింపునిస్తే ఒక దుకాణదారునికి 10% లాభం వస్తుంది. ఆ వస్తువు యొక్క ప్రకటిత వెల(రూ.లలో) ఎంత ?

- (1) 1090
- (2) 1100
- (3) 1140
- (4) 1150

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 93 Question Id : 2099632386 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability

అంకగణిత సామర్థ్యం

A person A sells a watch to B at a profit of 10%, B then sells it to C at a profit of 10%, C sells it to D with a 10% profit. If D gets it for Rs.6655, then the cost price of the watch (in rupees) is

ఒక గడియారాన్ని ఒక వ్యక్తి A, Bనకు 10% లాభంతోను; B, C నకు 10% లాభంతోను; C, Dనకు 10% లాభంతో అమ్మడం జరిగింది. D దానిని రూ.6655కు కొన్నట్లయితే, ఆ గడియారం కొన్న వెల (రూ.లలో)

- (1) 5120
- (2) 4980
- (3) 5000
- (4) 4875

Options :

- 1. ✓ 1
- 2. ✗ 2
- 3. ✗ 3
- 4. ✗ 4

Question Number : 94 Question Id : 2099632387 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability

అంకగణిత సామర్థ్యత

Three persons P, Q, and R enter into a partnership business with the investments in the ratio 3 : 4 : 5. R withdraws his investment at the end of 3 months. At the same time another person S joins with P and Q with the investment double that of P. If the share of P in year end profit is Rs.146400, then the share of S in the year end profit (in rupees) is

ముగ్గురు వ్యక్తులు P, Q, R లు ఒక ఉమ్మడి వ్యాపారాన్ని 3 : 4 : 5 నిష్పత్తిలో పెట్టుబడులను పెట్టి ప్రారంభించిరి. 3 నెలల తరువాత R ఆ వ్యాపారం నుండి తన పెట్టుబడిని ఉపసంహరించుకొనెను. అదే సమయంలో P, Q లతో S అనే వ్యక్తి P పెట్టుబడికి రెండింతలు పెట్టుబడితో భాగస్వామిగా చేరెను. సంవత్సరాంత లాభం లో P యొక్క వాటా రూ. Rs. 146400 అయినపుడు, S యొక్క వాటా (రూ.లలో)

- (1) 219600
- (2) 201800
- (3) 221600
- (4) 213200

Options :

1. ✓ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 95 Question Id : 2099632388 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability

అంకగణిత సామర్థ్యత

Three persons P, Q, R started a business with investments in the ratio $3 : 2 : 5$. After 6 months P and Q withdraw half of their investments. If the profit at the end of the year is Rs.700000, then P 's share of profit (in rupees) is

3 : 2 : 5 నిష్పత్తిల పెట్టుబడితో ముగ్గురు వ్యక్తులు P, Q, R లు ఒక వ్యాపారాన్ని ప్రారంభించిరి. 6 నెలల తరువాత P మరియు Q లు తమతమ పెట్టుబడిలో సగం వెనక్కు తీసుకున్నారు. సంవత్సరాంత లాభం రూ. 700000 అయినట్లయితే, P యొక్క వాటా (రూ.లలో)

- (1) 136000
- (2) 120000
- (3) 180000
- (4) 240000

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 96 Question Id : 2099632389 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability

అంకగణిత సామర్థ్యత

Two pipes A and B can fill a tank in 42 and 56 minutes respectively. If both the pipes are used together, how long will it take to fill the tank (in minutes)?

రెండు పైపులు ఒక నీటి తొట్టిని వరుసగా 42 మరియు 56 ని. లలో నింపుతాయి. ఆ రెండు పైపులను ఒకేసారి తెరిచినపుడు ఆ నీటి తొట్టి నిండటానికి పట్టే సమయం (ని.లలో)

(1) 24

(2) 44

(3) 28

(4) 32

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 97 Question Id : 2099632390 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability

అంకగణిత సామర్థ్యత

Two pipes individually A and B fill an empty tank in x, y hours respectively. If $x: y = 3: 2$ and B alone can fill the empty tank in 12 hours, then the time taken to fill the tank, when both pipes are opened is

ఒక ఖాళీ నీటి తొట్టి ని A, B అనే పంపులు విడివిడిగా వరుసగా x, y గంటలలో నింపుతాయి. $x: y = 3: 2$ మరియు పంపు B, ఖాళీ తొట్టి ని 12 గంటలలో నింపినపుడు, ఆ రెండు పంపులను ఒకే సారి తెరిచినపుడు ఆ నీటి తొట్టి నిండటానికి పట్టే సమయం

- (1) 7 hours 12 min
7 గం. 12 ని.
- (2) 7 hours 18 min
7 గం. 18 ని.
- (3) 7 hours
7 గం.
- (4) 8 hours
8 గం.

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 98 Question Id : 2099632391 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability

అంకగణిత సామర్థ్యం

Ravi goes from a city A to another city B at a speed of 50 kmph and returns back at a speed of 70 kmph. If he takes 21 hours in the journey, then the distance from A to B is (in km)

రవి గంటకు 50 కి.మీ. వేగంతో A అనే నగరం నుండి ఇంకో నగరం B కు తిరిగి మరల B నుండి A కు గంటకు 70 కి.మీ. వేగంతో ప్రయాణిస్తాడు. ఈ మొత్తం ప్రయాణానికి అతడు 21 గంటలు తీసుకుంటే, A నుండి B కు గల దూరం (కి.మీ.లలో)

- (1) 725.5
- (2) 640
- (3) 710
- (4) 612.5

Options :

- 1. ✓ 1
- 2. ✗ 2
- 3. ✗ 3
- 4. ✗ 4

Question Number : 99 Question Id : 2099632392 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability

అంకగణిత సామర్థ్యత

The speeds of two cars A and B are in the ratio 5 : 6. If A takes 30 minutes more than B to reach destination, in what time does A reach the destination? (in hours)

రెండు కార్లైన A, B ల వేగాల నిష్పత్తి 5 : 6. గమ్యస్థానానికి చేరడానికి B కన్న A, 30 నిమిషాలు ఎక్కువగా తీసుకుంటే, ఎంత సమయంలో A గమ్య స్థానాన్ని చేరుకోగలదు? (గంటలలో)

(1) 2

(2) $2\frac{1}{2}$

(3) 3

(4) $3\frac{1}{2}$

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 100 Question Id : 2099632393 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability

అంకగణిత సామర్థ్యం

Three persons A, B, C can do a piece of work individually in 20, 30 and 24 days respectively. All the three start working together but C leaves the work after 4 days.

In how many days the remaining work was completed by A, B ?

ముగ్గురు వ్యక్తులు A, B, C లు విడివిడిగా ఒక పనిని వరుసగా 20, 30 మరియు 24 రోజులలో పూర్తి చేయగలరు. ముగ్గురూ కలిసి పనిని ప్రారంభించిన నాల్గు రోజుల తరువాత C పనిని వదలి వెళ్ళాడు. మిగిలిన పనిని A, B లు కలిసి ఎన్ని రోజులలో పూర్తి చేసిరి?

- (1) 6
- (2) 7
- (3) 8
- (4) 9

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 101 Question Id : 2099632394 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability

అంకగణిత సామర్థ్యత

The ratios of times to complete a piece of work by A and B is $1 : 2$, B and C is $3 : 2$.
If A, B and C together complete the work in 260 minutes, in how many hours B alone can complete the work ?

A, B లు కలిసి ఒక పనిని పూర్తి చేయుటకు పట్టు సమయముల నిష్పత్తి $1 : 2$, మరియు B, C లు కలిసి పూర్తి చేయుటకు పట్టు సమయముల నిష్పత్తి $3 : 2$. A, B మరియు C లు ముగ్గురూ కలిసి ఆ పనిని 260 నిమిషాల్లో పూర్తి చేయగలిగితే, B ఒక్కడే ఆ పనిని ఎన్ని గంటలలో పూర్తి చేయును?

- (1) 1
- (2) 4
- (3) 3
- (4) 2

Options :

- 1. ✓ 1
- 2. ✗ 2
- 3. ✗ 3
- 4. ✗ 4

Question Number : 102 Question Id : 2099632395 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability

అంకగణిత సామర్థ్యత

Consider the right angled isosceles triangle ΔABC , with right angle at B. Let E, F be points of trisection on BC. Then $AC : AF : AE =$

B వద్ద లంబకోణాన్ని కలిగిన ABC అనే లంబకోణ సమద్వి బాహు త్రిభుజాన్ని పరిగణించండి.

BC పై E, F లు త్రిధాకరణ బిందువులు అనుకోండి. అప్పుడు $AC : AF : AE =$

- (1) $3\sqrt{2} : \sqrt{3} : \sqrt{10}$
- (2) $2\sqrt{2} : \sqrt{14} : \sqrt{10}$
- (3) $3\sqrt{2} : \sqrt{13} : \sqrt{10}$
- (4) $3\sqrt{2} : 2\sqrt{13} : \sqrt{10}$

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 103 Question Id : 2099632396 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability

అంకగణిత సామర్థ్యత

Let R be a rectangle with length x cm and breadth y cm. If x and y are both increased by 1 unit each, the area of this new rectangle becomes 403 sq.units. Then the area of R is (in sq. units)

R అనే ఒక దీర్ఘ చతురస్రం పొడవు x సెం.మీ. మరియు వెడల్పు y సెం.మీ. x, y లను 1 సెం.మీ. చొప్పున పెంచినపుడు ఏర్పడిన కొత్తదయిన దీర్ఘ చతురస్ర వైశాల్యం 403 చ.సెం.మీ. అయినపుడు, దీర్ఘ చతురస్రం R వైశాల్యం (చ.సెం.మీ. లలో)

- (1) 360
- (2) 370
- (3) 240
- (4) 250

Options :

- 1. ✓ 1
- 2. ✗ 2
- 3. ✗ 3
- 4. ✗ 4

Question Number : 104 Question Id : 2099632397 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability

అంకగణిత సామర్థ్యత

The ratio of lateral surface areas of two right circular cylinders is 10 : 9 and the ratio of their heights is 8 : 3. Then the ratio of their volumes is

రెండు క్రమ వృత్తాకార స్థూపాల ప్రక్కతల వైశాల్యాల నిష్పత్తి 10 : 9 మరియు వాటి ఎత్తుల నిష్పత్తి 8 : 3 అయినపుడు, వాటి ఘన పరిమాణాల నిష్పత్తి

- (1) 54 : 25
- (2) 25 : 54
- (3) 24 : 55
- (4) 55 : 24

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 105 Question Id : 2099632398 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability

అంకగణిత సామర్థ్యత

C is a hollow cuboid of dimensions $90 \times 120 \times 150 \text{ cm}^3$. C is to be painted on all its surfaces. If the total cost of painting is Rs.846, then the cost (in rupees) of painting per sq. meter is

C అనే ఒక గుల్ల దీర్ఘ ఘనం యొక్క కొలతలు $90 \times 120 \times 150$ సెం.మీ.³ C యొక్క అన్ని తలాలకు రంగువేయడానికి రూ.846 ఖర్చు అయినపుడు, ప్రతి చ.మీ. ఒక్కంటికి అయ్యే ఖర్చు (రూ.లలో)

- (1) 80
- (2) 100
- (3) 120
- (4) 140

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 106 Question Id : 2099632399 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability

అంకగణిత సామర్థ్యత

There is a circular field of diameter 91m protected by fencing around the field. A walk way of width 3.5 m inside and along the boundary has been created. The total cost incurred in getting this work done is Rs.144375. Then the cost per sq.meter (in rupees) is

91మీ. వ్యాసంగల ఒక వృత్తాకార క్షేత్రం ను రక్షించటానికి ఆ క్షేత్రం చుట్టూ కంచె ఉంది. దాని లోపల సరిహద్దు వెంబడి 3.5మీ. వెడల్పు గల ఒక నడకదారిని ఏర్పాటు చేయటం జరిగింది. దీనికి అయిన మొత్తం ఖర్చు రూ.144375 అయినపుడు, ఒక్కో చ. మీ. కు అయిన ఖర్చు (రూ.లలో)

- (1) 150
- (2) 130
- (3) 140
- (4) 145

Options :

- 1. ✓ 1
- 2. ✗ 2
- 3. ✗ 3
- 4. ✗ 4

Question Number : 107 Question Id : 2099632400 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability

అంకగణిత సామర్థ్యత

There is a rectangular field. The total cost of fencing around the rectangular field is Rs.12000. If the length is 20m more than its breadth and if the cost of fencing per meter is Rs.125, then the length (in meters) of the field is

ఒక దీర్ఘ చతురస్రాకార క్షేత్రం యొక్క పొడవు, వెడల్పు కన్నా 20 మీ. అధికంగా ఉన్నది. మరియు ఆ క్షేత్రం చుట్టు కంచె వేయడానికి ప్రతి మీ.కు రూ.125 చొప్పున రూ.12000 ఖర్చు అయితే, ఆ క్షేత్రం యొక్క పొడవు (మీ.లలో)

- (1) 32
- (2) 34
- (3) 36
- (4) 38

Options :

- 1. ✓ 1
- 2. ✗ 2
- 3. ✗ 3
- 4. ✗ 4

Question Number : 108 Question Id : 2099632401 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability

అంకగణిత సామర్థ్యత

The length and breadth of a rectangular play ground are 39m and 30m respectively. Poles are required to be fixed along the boundary at a distance 3m apart. Then the number of poles required is

ఒక దీర్ఘ చతురస్రాకారపు ఆట స్థలం యొక్క పొడవు, వెడల్పు లు వరుసగా 39 మీ., 30మీ. ఆట స్థలం చుట్టూ, ప్రతీ రెండు స్థంబాల మధ్య 3మీ. నిడివి ఉండేట్లుగా స్థంబాలను బిగించాల్సినపుడు, కావలసిన స్థంబాల సంఖ్య

- (1) 38
- (2) 36
- (3) 42
- (4) 46

Options :

- 1. ✓ 1
- 2. ✗ 2
- 3. ✗ 3
- 4. ✗ 4

Question Number : 109 Question Id : 2099632402 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability

అంకగణిత సామర్థ్యత

The least positive value of k such that 19 divides $50^{19} - k$ is

$50^{19} - k$ ను 19 నిశ్శేషంగా భాగించేట్లు, k యొక్క కనిష్ట ధన విలువ

(1) 11

(2) 17

(3) 12

(4) 18

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 110 Question Id : 2099632403 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability

అంకగణిత సామర్థ్యత

The smallest four digit positive integer that satisfies $12x \equiv 5 \pmod{13}$ is

$12x \equiv 5 \pmod{13}$ ను తృప్తి పరిచే నాలుగంకెల సంఖ్యలలో కనిష్ట ధన సంఖ్య

(1) 1303

(2) 1009

(3) 2603

(4) 1008

Options :

1. ✓ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Sub-Section Number: 2
Sub-Section Id: 209963265
Question Shuffling Allowed : Yes

Question Number : 111 Question Id : 2099632404 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

If $A = \{x : 0 < x < 50, x \text{ is a natural number}\}$ and

$B = \{x : x = 5n, n = 1, 2, 3, 4, \dots\}$ then $n(A \cap B) =$

$A = \{x : 0 < x < 50, x \text{ ఒక సహజ సంఖ్య}\}$ మరియు

$B = \{x : x = 5n, n = 1, 2, 3, 4, \dots\}$ అయితే, $n(A \cap B) =$

(1) 10

(2) 9

(3) 0

(4) 11

Options :

1. ✓ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 112 Question Id : 2099632405 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

$$A = \{x \in R : |x - 4| < 4\}, B = \{x \in R : |x - 5| < 2\} \Rightarrow A \cup B =$$

(1) A

(2) B

(3) $A \cap B$

(4) ϕ

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 113 Question Id : 2099632406 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

If $(x^2 - 1)$ is a factor of the polynomial $4x^4 - 7x^3 + ax^2 + bx + 5$,
then $a^2 + b =$

బహుపది $4x^4 - 7x^3 + ax^2 + bx + 5$ కు $(x^2 - 1)$ ఒక కారణాంకం అయితే,

$a^2 + b =$

- (1) 74
- (2) 88
- (3) 92
- (4) 130

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 114 Question Id : 2099632407 Question Type : MCQ Option Shuffling : No Display Question Number : Yes

Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

If a root of the equation $x^2 - 15x + m = 0$ exceeds the other by 3, then $m =$

$x^2 - 15x + m = 0$ సమీకరణం యొక్క ఒక మూలం ఇంకోమూలం కన్నా 3 ఎక్కువగా

ఉంటే, $m =$

(1) 70

(2) 18

(3) 40

(4) 54

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 115 Question Id : 2099632408 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

Let $p(x) = x^3 + ax^2 + bx + 1$ and if $x^2 - 1$ is a factor of $p(x)$, then $2a - 3b =$

$p(x) = x^3 + ax^2 + bx + 1$ మరియు $p(x)$ కు $x^2 - 1$ ఒక కారణాంకం అయితే,

$2a - 3b =$

(1) 1

(2) 2

(3) 3

(4) 4

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 116 Question Id : 2099632409 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

The remainder when $5x^3 + 2x^2 - 3x + 4$ is divided by $x - 1$ is

$5x^3 + 2x^2 - 3x + 4$ ను $x - 1$ చే భాగించినపుడు వచ్చే శేషం

(1) 0

(2) 9

(3) 8

(4) 5

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 117 Question Id : 2099632410 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

If the common solution of the equations $3x + 2xy + 2y = 0$ and

$x - xy + 4y = 0$ is (x_0, y_0) , then $x_0^3 + y_0^3 =$

$3x + 2xy + 2y = 0$ మరియు $x - xy + 4y = 0$ అనే సమీకరణముల ఉమ్మడి సాధన

(x_0, y_0) , అయితే, $x_0^3 + y_0^3 =$

(1) 13

(2) 25

(3) 7

(4) 8

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 118 Question Id : 2099632411 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

$$x = \sqrt{12 + \sqrt{143}}, y = \sqrt{12 - \sqrt{143}} \Rightarrow (x + 1)(y + 1) =$$

(1) $\sqrt{26} - 2$

(2) $\sqrt{26} - 4$

(3) $2 + \sqrt{26}$

(4) $4 + \sqrt{26}$

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 119 Question Id : 2099632412 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

$$\sqrt{x^4 - 2x^3 + 3x^2 - 2x + 1} =$$

(1) $x^2 - x - 1$

(2) $x^2 + x - 1$

(3) $x^2 - x + 1$

(4) $-x^2 + x + 2$

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 120 Question Id : 2099632413 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

If $a + 1, 3a - 4$ and $6a - 13$ are in arithmetic progression, then $4a + 6 =$

$a + 1, 3a - 4, 6a - 13$ లు అంకశ్రేణిలో ఉంటే $4a + 6 =$

(1) 16

(2) 10

(3) 22

(4) 30

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 121 Question Id : 2099632414 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

If the arithmetic mean and geometric mean of the positive numbers a and b are 10

and 8 respectively, then $\frac{a+b}{(a-b)^2} =$

రెండు ధన సంఖ్యలు a, b ల అంకమధ్యమం, గుణ మధ్యమం లు వరుసగా 10 మరియు 8

అయితే, $\frac{a+b}{(a-b)^2} =$

(1) $\frac{1}{9}$

(2) $\frac{1}{12}$

(3) $\frac{5}{36}$

(4) $\frac{1}{144}$

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 122 Question Id : 2099632415 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

$$\sin(1485^0) + \tan(1485^0) =$$

(1) $-1 - \frac{1}{\sqrt{2}}$

(2) $\frac{-1}{\sqrt{2}} + 1$

(3) $\frac{1}{\sqrt{2}} - 1$

(4) $\frac{1}{\sqrt{2}} + 1$

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 123 Question Id : 2099632416 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

$$\sin x + \operatorname{cosec} x = 2 \implies \sin^{2024} x + \operatorname{cosec}^{2024} x =$$

(1) 1

(2) 3

(3) 2

(4) 0

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 124 Question Id : 2099632417 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

$$\frac{\sin A + \cos A}{\sin A - \cos A} + \frac{\sin A - \cos A}{\sin A + \cos A} = \frac{k}{\sin^2 A - \cos^2 A} \implies k =$$

(1) 1

(2) 2

(3) 3

(4) 4

Options :

1. ✓ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 125 Question Id : 2099632418 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

If θ is an acute angle and

$$\tan \theta = \cot \theta, \text{ then } \frac{\cot(\theta+15)^\circ}{\cot(\theta-15)^\circ} =$$

θ ఒక లఘు కోణం అవుతూ $\tan \theta = \cot \theta$ అయినప్పుడు,

$$\frac{\cot(\theta+15)^\circ}{\cot(\theta-15)^\circ} =$$

(1) $\frac{1}{3}$

(2) 3

(3) 2

(4) -3

Options :

1. ✓ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 126 Question Id : 2099632419 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

Two persons P, Q on either side of the tower on the line passing through the feet of the tower observed that the angles of elevation of the top of the tower are 30° , 60° respectively. If the distance between P and the feet of the tower is 30 meters, then the distance between the feet of the tower and Q is (in meters)

శిఖర పాదం గుండా పోవు సరళరేఖ పై శిఖరానికి చెరోవైపున ఉన్నట్టి P, Q అనే వ్యక్తులు శిఖరాగ్రం యొక్క ఊర్ధ్వ కోణాలను 30° , 60° లు గా పరిశీలన చేశారు. P అనే వ్యక్తి శిఖర పాదానికి 30 మీ. ల దూరం లో ఉన్నట్లయితే, శిఖర పాదం నుండి Q అనే వ్యక్తికి గల దూరం. (మీ.లలో)

- (1) $10\sqrt{3}$
- (2) 10
- (3) $\frac{10}{\sqrt{3}}$
- (4) $30\sqrt{3}$

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 127 Question Id : 2099632420 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

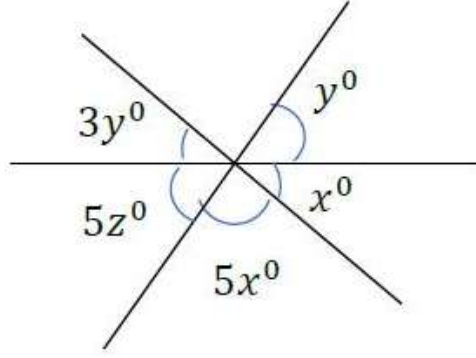
SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

In the following figure, the value of y is

క్రింది పటంలో y యొక్క విలువ



- (1) 10
- (2) $\frac{180}{19}$
- (3) $\frac{190}{18}$
- (4) 12

Options :

- 1. ✓ 1
- 2. ✗ 2
- 3. ✗ 3
- 4. ✗ 4

Question Number : 128 Question Id : 2099632421 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

If $(90 - x)^\circ$, $2x^\circ$ and x° are the angles of a triangle, then the value of x is

$(90 - x)^\circ$, $2x^\circ$ మరియు x° లు ఒక త్రిభుజం లోని మూడు కోణాలు అయినప్పుడు x విలువ

(1) 25

(2) 35

(3) 55

(4) 45

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 129 Question Id : 2099632422 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

Let S be a circle with centre O and A, B be two points on S. If the area of the sector OAB is 462 sq.cm and the sectorial angle AOB is 30° , then the length of the arc AB (in cm) (Take $\pi = \frac{22}{7}$) is

S అనే వృత్తం యొక్క కేంద్రం O మరియు S పై A, B లను రెండు బిందువులనుకోండి. సెక్టర్ OAB వైశాల్యం 462 చ.సం.మీ. మరియు సెక్టర్ కోణం AOB విలువ 30° అయినప్పుడు, AB చాపం పొడవు (సం.మీ. లలో) ($\pi = \frac{22}{7}$)

- (1) 20
- (2) 21
- (3) 22
- (4) 23

Options :

- 1. ✓ 1
- 2. ✗ 2
- 3. ✗ 3
- 4. ✗ 4

Question Number : 130 Question Id : 2099632423 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

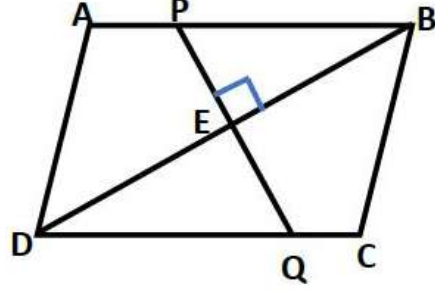
SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

$ABCD$ is a parallelogram. E is the mid point of the diagonal DB . If $DQ = 10\text{ cm}$ and $DB = 16\text{ cm}$., then PQ (in cm) is

$ABCD$ ఒక సమాంతర చతుర్భుజం. వికర్ణం DB కి మధ్య బిందువు E . $DQ = 10$ సెం.మీ. మరియు $DB = 16$ సెం.మీ. అయితే, PQ (సెం.మీ. లలో)



- (1) 6
- (2) 10
- (3) 8
- (4) 12

Options :

- 1. ✓ 1
- 2. ✗ 2
- 3. ✗ 3
- 4. ✗ 4

Question Number : 131 Question Id : 2099632424 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

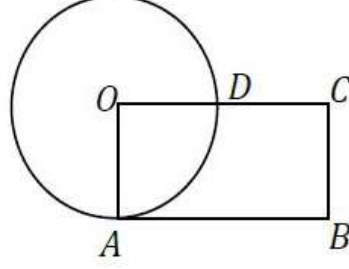
SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

In the following figure, if $AB = 2BC$, then the ratio of area of ABCD to the area of the circle is

ఈ క్రింది చిత్రంలో $AB = 2BC$ అయినపుడు, ABCD వైశాల్యానికి, వృత్త వైశాల్యానికి గల నిష్పత్తి



- (1) 42 : 17
- (2) 41 : 17
- (3) 17 : 44
- (4) 17 : 42

Options :

- 1. ✓ 1
- 2. ✗ 2
- 3. ✗ 3
- 4. ✗ 4

Question Number : 132 Question Id : 2099632425 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

In the triangle ABC, given that $\angle A = a^\circ + 2b^\circ$, $\angle B = 70^\circ + 3b^\circ$ and $\angle C = 60^\circ - a^\circ$, then b =

త్రిభుజం ABCలో $\angle A = a^\circ + 2b^\circ$, $\angle B = 70^\circ + 3b^\circ$ మరియు $\angle C = 60^\circ - a^\circ$ అయినప్పుడు, b =

- (1) 10
- (2) 12
- (3) 14
- (4) 16

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 133 Question Id : 2099632426 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

The slope of the line $\sqrt{3}(x + y) + 2(y - x) + 4 = 0$ is

$\sqrt{3}(x + y) + 2(y - x) + 4 = 0$ అనే సరళరేఖ యొక్క వాలు

(1) $7 - 4\sqrt{3}$

(2) $2 - \sqrt{3}$

(3) $7 + 4\sqrt{3}$

(4) $2 + \sqrt{3}$

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 134 Question Id : 2099632427 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

The equation of the straight line passing through the intersecting point of the lines $x + y - 1 = 0$, $2x + y - 6 = 0$ and parallel to $4x + 9y + 3 = 0$ is

$x + y - 1 = 0$, $2x + y - 6 = 0$ అనే సరళరేఖల ఖండన బిందువుగుండా పోతూ $4x + 9y + 3 = 0$ నకు సమాంతరంగా ఉండే సరళరేఖా సమీకరణం

- (1) $8x + 18y - 17 = 0$
- (2) $4x + 9y - 16 = 0$
- (3) $4x + 9y + 16 = 0$
- (4) $8x + 18y + 17 = 0$

Options :

1. ✓ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 135 Question Id : 2099632428 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

If the point $P(3, 1)$ divides the line segment joining $A(4, 0)$ and $B(x, y)$ internally in the ratio $1 : 3$, then $x + y =$

$A(4, 0), B(x, y)$ లను కలిపే రేఖా ఖండాన్ని $P(3, 1)$ అనే బిందువు $1 : 3$ నిష్పత్తిలో అంతరంగా విభజిస్తుంటే, $x + y =$

- (1) 1
- (2) 2
- (3) 3
- (4) 4

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 136 Question Id : 2099632429 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

A line L is parallel to $y = x$ and passing through (2, 5). Then what is the distance from L to $y = x$?

(2, 5) గుండా పోతూ $y = x$ సరళరేఖకు సమాంతరంగా ఉన్న రేఖ L అనేది $y = x$ కు ఎంత దూరంలో ఉంటుంది?

(1) $5\sqrt{2}$

(2) 4

(3) 5

(4) $\frac{5}{\sqrt{2}}$

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 137 Question Id : 2099632430 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

The equation of a line passing through the origin and perpendicular to the line joining the points (2, 3) and (0, 0) is

మూల బిందువు గుండా పోతూ (2, 3), (0, 0) బిందువులను కలిపే రేఖకు లంబంగా ఉండే సరళరేఖా సమీకరణం

(1) $2x - 3y = 0$

(2) $3x - 2y = 0$

(3) $2x + 3y = 0$

(4) $3x + 2y = 0$

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 138 Question Id : 2099632431 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

Slope-intercept form of the line passing through the point $(-2,3)$ with slope 2 is

$(-2,3)$ గుండా పోతూ 2 వాలుగా గల సరళరేఖ కు వాలు, అంతర ఖండ రూపం

(1) $y = 2x + 6$

(2) $y = 2x + 5$

(3) $y = 2x + 7$

(4) $y + 2x = 7$

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 139 Question Id : 2099632432 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

If a and b are X and Y-intercepts of the line $2x + 3y = 10$ respectively, then

$$9(a^2 + b^2) =$$

$2x + 3y = 10$ అనే సరళరేఖ యొక్క X, Y-అంతరఖండాలు వరుసగా a, b లయితే,

$$9(a^2 + b^2) =$$

(1) 325

(2) 25

(3) 105

(4) 41

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 140 Question Id : 2099632433 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

The lines $ax + (1 - a)y - 1 = 0$ always pass through the point

$ax + (1 - a)y - 1 = 0$ అనే రేఖలు ఎల్లప్పుడూ ఈ బిందువు గుండా పోతాయి.

(1) (-1, 2)

(2) (1, -2)

(3) (1, 3)

(4) (1, 1)

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Sub-Section Number: 3
Sub-Section Id: 209963266
Question Shuffling Allowed : Yes

Question Number : 141 Question Id : 2099632434 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

3. Statistical Ability

సంఖ్యాకశాస్త్ర సామర్థ్యత

If the mean of $x, x - 97, 6, 9, x - 88, x - 84$ is 25, then $2x =$

$x, x - 97, 6, 9, x - 88, x - 84$ ల అంకమధ్యమం 25 అయితే, $2x =$

(1) 202

(2) 101

(3) 350

(4) 200

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 142 Question Id : 2099632435 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

3. Statistical Ability

సంఖ్యాకశాస్త్ర సామర్థ్యత

If the average of three numbers is 17 and the sum of two of the three numbers is 32, then the third number is

మూడు సంఖ్యల సరాసరి 17, ఆ మూడు సంఖ్యలలో రెండు సంఖ్యల మొత్తం 32, అయితే, మూడవ సంఖ్య

(1) 24

(2) 21

(3) 17

(4) 19

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 143 Question Id : 2099632436 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

3. Statistical Ability

సంఖ్యాకశాస్త్ర సామర్థ్యత

If the mean of the observations 20, 21, 32, 16 and x and the mean of the observations 30, 25, 26, 14, 17 are equal, then $x =$

20, 21, 32, 16 మరియు x అనే పరిశీలనల మధ్యమం అనేది 30, 25, 26, 14, 17 ల మధ్యమం నకు సమానమైతే, $x =$

- (1) 21
- (2) 22
- (3) 24
- (4) 23

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 144 Question Id : 2099632437 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

3. Statistical Ability

సంఖ్యాకశాస్త్ర సామర్థ్యత

The median of 8 observations is 47. Another four observations 52, 43, 13, 56 were added to the data. Then the median of 12 observations is

8 పరిశీలనలను కలిగిన దత్తాంశపు మధ్యగతం 47. ఇంకనూ 4 పరిశీలనలు 52, 43, 13, 56 లను దత్తాంశానికి అదనంగా చేర్చి నప్పుడు, ఆ 12 పరిశీలనల మధ్యగతం

- (1) 45
- (2) 47
- (3) 30
- (4) 52

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 145 Question Id : 2099632438 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

3. Statistical Ability

సంఖ్యాకశాస్త్ర సామర్థ్యత

The median of the following data is

క్రింది దత్తాంశం యొక్క మధ్యగతం

Marks మార్కులు	10-25	25-40	40-55	55-70	70-85	85-100
Frequency పౌనః పున్యం	6	20	44	26	3	1

- (1) 47.52
- (2) 50.23
- (3) 49.28
- (4) 48.18

Options :

- 1. ✓ 1
- 2. ✗ 2
- 3. ✗ 3
- 4. ✗ 4

Question Number : 146 Question Id : 2099632439 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

3. Statistical Ability

సంఖ్యాకశాస్త్ర సామర్థ్యత

The mode of the data 7, 5, 13, 7, 6, 5, 13, 4, 13, 7, x is 13, then $x =$

దత్తాంశం 7, 5, 13, 7, 6, 5, 13, 4, 13, 7, x యొక్క బాహుళకం 13 అయితే, $x =$

- (1) 6
- (2) 5
- (3) 7
- (4) 13

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 147 Question Id : 2099632440 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

3. Statistical Ability

సంఖ్యాకశాస్త్ర సామర్థ్యత

The mode of the following frequency distribution is

క్రింది పౌనః పున్య విభాజనం యొక్క బాహుళకం

x_i	10	15	20	25	30
f_i	5	3	2	6	4

- (1) 10
- (2) 25
- (3) 30
- (4) 20

Options :

- 1. ✓ 1
- 2. ✗ 2
- 3. ✗ 3
- 4. ✗ 4

Question Number : 148 Question Id : 2099632441 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

3. Statistical Ability

సంఖ్యాకశాస్త్ర సామర్థ్యత

Two unbiased dice, whose faces are numbered from 1 to 6, are thrown simultaneously.

What is the probability that the difference of numbers that appear on top faces is 2?

ముఖాలను 1 నుండి 6 సంఖ్యలతో సూచించబడిన రెండు నిష్పాక్షిక పాచికలను ఒకేసారి దొర్లించిరి.

అప్పుడు, వాటి పై ముఖాల పైవచ్చే సంఖ్యల భేదం 2 అగుటకు సంభావ్యత ఎంత ?

(1) $\frac{1}{10}$

(2) $\frac{1}{5}$

(3) $\frac{2}{9}$

(4) $\frac{1}{3}$

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 149 Question Id : 2099632442 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

3. Statistical Ability

సంఖ్యాకశాస్త్ర సామర్థ్యత

A number is selected at random from 100 natural numbers 1, 2, 3, 4, ..., 100.

Then the probability that a randomly selected number is not a perfect square is

మొదటి 100 సహజ సంఖ్యలు 1, 2, 3, 4, ..., 100 ల నుండి ఒక సంఖ్యను యాదృచ్ఛికంగా ఎంపిక చేసారు. ఈ ఎంపిక చేయబడిన సంఖ్య సంపూర్ణ వర్గం కాకపోవడానికి సంభావ్యత

(1) $\frac{9}{10}$

(2) $\frac{7}{15}$

(3) $\frac{3}{10}$

(4) $\frac{1}{2}$

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 150 Question Id : 2099632443 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

3. Statistical Ability

సంఖ్యాకశాస్త్ర సామర్థ్యత

The probability that a randomly selected number from 2, 3, 4, 5,, 100, 101 is not a prime is

2, 3, 4, 5,, 100, 101 ల నుండి యాదృచ్ఛికంగా ఎన్నుకున్న ఒక సంఖ్య ప్రధాన సంఖ్య కాకుండుటకు సంభావ్యత

- (1) 0.75
- (2) 0.73
- (3) 0.74
- (4) 0.76

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Communication Ability

Section Id :	20996336
Section Number :	3
Section type :	Online
Mandatory or Optional:	Mandatory
Number of Questions to be attempted:	38
Section Marks:	50
Maximum Instruction Time :	0

Sub-Section Number:	1
Sub-Section Id:	209963267
Question Shuffling Allowed :	Yes

Question Number : 151 Question Id : 2099632444 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Meanings

A pedestrian is one who _____ .

- (1) drives a motorcycle
- (2) sits in a car
- (3) walks on foot
- (4) travels by train

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 152 Question Id : 2099632445 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Meanings

All the players were in good form. So, it was a facile win for them.

- (1) hard
- (2) honest
- (3) easy
- (4) grand

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 153 Question Id : 2099632446 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Meanings

Paradigm means _____ .

- (1) model
- (2) scenery
- (3) sensor
- (4) perception

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 154 Question Id : 2099632447 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Meanings

He was quite judicious. He distributed the property among his children _____ .

- (1) justly
- (2) lethargic
- (3) hasty
- (4) unjust

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 155 Question Id : 2099632448 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Meanings

The media appreciated his _____ efforts after he won the national award for his acting skills.

- (1) inconsistent
- (2) random
- (3) unsteady
- (4) determined

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Sub-Section Number:	2
Sub-Section Id:	209963268
Question Shuffling Allowed :	Yes

Question Number : 156 Question Id : 2099632449 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Synonyms and Antonyms

The antonym of hassle-free

- (1) easy
- (2) trouble-free
- (3) complicated
- (4) smooth

Options :

1. ✓ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 157 Question Id : 2099632450 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Synonyms and Antonyms

Synonym of 'assay'

(1) analyze

(2) say

(3) save

(4) believe

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 158 Question Id : 2099632451 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Synonyms and Antonyms

Antonym of ‘malevolence’.

- (1) cruelty
- (2) ambivalence
- (3) benevolence
- (4) honesty

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 159 Question Id : 2099632452 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Synonyms and Antonyms

The synonym of solace

- (1) consolation
- (2) distress
- (3) trouble
- (4) anguish

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✖ 4

Question Number : 160 Question Id : 2099632453 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0
SECTION - C : COMMUNICATION ABILITY – Synonyms and Antonyms

The antonym of ‘mediocre’

- (1) moderate
- (2) mundane
- (3) matchless
- (4) medium

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Sub-Section Number:	3
Sub-Section Id:	209963269
Question Shuffling Allowed :	Yes

Question Number : 161 Question Id : 2099632454 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0
SECTION - C : COMMUNICATION ABILITY – Verb (Tense & Voice)

I _____ the lecture yesterday.

- (1) have attended
- (2) was attended
- (3) attended
- (4) am attending

Options :

1. ✓ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 162 Question Id : 2099632455 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Verb (Tense & Voice)

Ramu _____ constructing the building since 2020.

(1) have been

(2) has been

(3) was

(4) should be

Options :

1. ✓ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 163 Question Id : 2099632456 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Verb (Tense & Voice)

She _____ dinner last evening.

- (1) cooked
- (2) will cook
- (3) is cooking
- (4) will be cooking

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 164 Question Id : 2099632457 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Verb (Tense & Voice)

Give away these prizes to the winners. (Change the Voice)

- (1) These prizes may be given away to the winners.
- (2) Winners may be given away these prizes.
- (3) These prizes are given away to the winners.
- (4) Let these prizes be given away to the winners.

Options :

1. ✓ 1

2. ✗ 2

3. ✖ 3

4. ✖ 4

Question Number : 165 Question Id : 2099632458 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Verb (Tense & Voice)

They _____ delighted to meet their friend yesterday.

- (1) were
- (2) are
- (3) have been
- (4) was

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Sub-Section Number:	4
Sub-Section Id:	209963270
Question Shuffling Allowed :	Yes

Question Number : 166 Question Id : 2099632459 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Phrasal Verbs and Idioms

I promise to stop smoking. I am turning over a new leaf this year.

The underlined idiom means.

- (1) I am making a new start by stopping smoking.
- (2) I am turning the leaves of a book to stop smoking.
- (3) I am turning the leaves of this tree to stop smoking.
- (4) I stopped smoking last year itself and turning a new life this year.

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 167 Question Id : 2099632460 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Phrasal Verbs and Idioms

The mango garden was a bone of contention among the brothers.

(Find out the meaning of the underlined idiom)

- (1) a subject of disagreement
- (2) a subject of understanding
- (3) a point of disorder
- (4) an issue of agriculture

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✖ 4

Question Number : 168 Question Id : 2099632461 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Phrasal Verbs and Idioms

He succeeded in the UPSC examination in his maiden attempt.
(Find out the meaning of the underlined idiom)

- (1) unmarried
- (2) repeated
- (3) last attempt
- (4) first attempt

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 169 Question Id : 2099632462 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Phrasal Verbs and Idioms

His health broke down under the pressure of work.

The underlined phrase means

- (1) improved
- (2) collapsed
- (3) broke into pieces
- (4) met with an accident

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 170 Question Id : 2099632463 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Phrasal Verbs and Idioms

The severe snow storm blocked the highway and _____ the city.

- (1) cut off
- (2) cut into
- (3) cut in
- (4) cut up

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✖ 4

Sub-Section Number: 5
Sub-Section Id: 209963271
Question Shuffling Allowed : Yes

Question Number : 171 Question Id : 2099632464 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Articles and Propositions

This is _____ best book I have ever read.

- (1) a
- (2) the
- (3) an
- (4) that

Options :

1. ✓ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 172 Question Id : 2099632465 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Articles and Propositions

He died _____ Corona.

- (1) of
- (2) by
- (3) with
- (4) at

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 173 Question Id : 2099632466 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Articles and Propositions

I could trace _____ dictionary which I lost yesterday.

- (1) a
- (2) the
- (3) an
- (4) any

Options :

1. ✓ 1

2. ✗ 2

3. ✖ 3

4. ✖ 4

Question Number : 174 Question Id : 2099632467 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Articles and Propositions

He always boasts _____ his past glory.

(1) upon

(2) on

(3) of

(4) in

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 175 Question Id : 2099632468 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Articles and Propositions

The archaeologists found a tunnel _____ the floor.

(1) above

(2) beneath

(3) on

(4) over

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Sub-Section Number: 6
Sub-Section Id: 209963272
Question Shuffling Allowed : Yes

Question Number : 176 Question Id : 2099632469 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Computer Terminology

A sequence of instructions used to perform a task in software.

- (1) Attenuation
- (2) Agile
- (3) Assembly Language
- (4) Algorithm

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 177 Question Id : 2099632470 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Computer Terminology

Bus is

- (1) a circuit that provides a communication path between two or more devices of a digital computer system.
- (2) a vehicle
- (3) an instrument used to calculate numbers
- (4) a loud cry

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 178 Question Id : 2099632471 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Computer Terminology

CMOS stands for

- (1) Cosmos Mind Over Soul.
- (2) Computer Modelled On Supplement.
- (3) Central Metal Oxide Saccharine.
- (4) Complementary Metal Oxide Semiconductor.

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 179 Question Id : 2099632472 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Computer Terminology

A set of actions aimed to infiltrate computer networks, systems and personal devices.

- (1) Cyber Security
- (2) Cyber Attack
- (3) Cyber Security Analyst
- (4) Dark Web

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 180 Question Id : 2099632473 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Computer Terminology

Monitor and keyboard are examples of _____ .

- (1) firmware
- (2) peripherals
- (3) motherboard
- (4) operating system

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✖ 4

Sub-Section Number: 7
Sub-Section Id: 209963273
Question Shuffling Allowed : Yes

Question Number : 181 Question Id : 2099632474 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Business Terminology

A sequence of activities that must be performed from initiation to completion of a task.

- (1) Workflow
- (2) Workforce
- (3) Business Travel
- (4) Post-production

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 182 Question Id : 2099632475 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

An increase in general level of prices caused by excess demand.

- (1) Commercial
- (2) Income flow
- (3) Infringement
- (4) Inflation

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 183 Question Id : 2099632476 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

LVR stands for

- (1) Loan-to-Value Ratio
- (2) Loan-for-Venture Ratio
- (3) Loan-to-Variable Ratio
- (4) Loan-to-Viable Ratio

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✖ 4

Question Number : 184 Question Id : 2099632477 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Business Terminology

A business model that facilitates purchase or sales of products and services online.

- (1) Marketing
- (2) Advertising
- (3) E-commerce
- (4) Business Technique

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 185 Question Id : 2099632478 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Business Terminology

_____ includes the activities of innovation and introduction of new products.

- (1) Research and Development
- (2) Risk Management
- (3) Human Resource
- (4) Business Analytics

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Id : 2099632479 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No Question Pattern Type : NonMatrix Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Question Numbers : (186 to 190)

SECTION - C : COMMUNICATION ABILITY – Comprehension Passage-1

What is freedom? It is a difficult question to answer categorically. Does it mean absolute liberty to do as one pleases? Complete non-restraint to pursue any fancy that strikes one? Is such a free existence possible at all for a human being? Freedom is, indeed, a nebulous concept, laying itself open to several interpretations, even conflicting ones.

There are champions of freedom who vehemently oppose any form of social control. Thoreau at least allows the need of some government---"the best government is the least government"--but there are others who denounce any sort of organisation at all. But given the imperfect nature of human beings, surely, such freedom would degenerate into anarchy and finally to the survival of the fittest in the sense of brute power? It would result in the tyranny of the weak by the strong; It would mean freedom for the strong and enslavement of the weak.

Sub questions

Question Number : 186 Question Id : 2099632480 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Comprehension Passage-1

The main theme of the passage is

- (1) Freedom
- (2) Self-restraint
- (3) Social Control
- (4) Best Government

Options :

1. ✓ 1

2. ✗ 2

3. ✖ 3

4. ✖ 4

Question Number : 187 Question Id : 2099632481 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Comprehension Passage-1

"Is such a free existence possible at all for a human being?":

What do you mean by "such a free existence" in this sentence?

- (1) Restrained Freedom
- (2) Social Control
- (3) Complete freedom to do whatever you like
- (4) Tyranny

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 188 Question Id : 2099632482 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Comprehension Passage-1

What is the meaning of 'nebulous' in the passage?

- (1) clear
- (2) distinct
- (3) controversial
- (4) vague

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 189 Question Id : 2099632483 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Comprehension Passage-1

According to Thoreau, the best government

- (1) exercises maximum authority.
- (2) imposes minimum authority.
- (3) leads to anarchy.
- (4) exercises brutal power.

Options :

1. ✓ 1

2. ✗ 2

3. ✖ 3

4. ✖ 4

Question Number : 190 Question Id : 2099632484 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Comprehension Passage-1

Absolute freedom degenerates into anarchy, because

- (1) human beings are perfect.
- (2) human beings are imperfect.
- (3) human beings are weak.
- (4) human beings are self-restrained.

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Sub-Section Number:	9
Sub-Section Id:	209963275
Question Shuffling Allowed :	No

Question Id : 2099632485 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension
Questions : No Question Pattern Type : NonMatrix Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in
seconds) : 0 Calculator : None

Question Numbers : (191 to 195)

But let there be not a semblance of breach of peace even after all of us have been arrested. We have resolved to utilize all our resources in the pursuit of an exclusively nonviolent struggle. Let no one commit a wrong in anger. This is my hope and prayer. I wish these words of mine reached every nook and corner of the land. My task shall be done if I perish and so do my comrades. It will then be for the Working Committee of the Congress to show you the way and it will be up to you to follow its lead. So long as I have reached Jalapur, let nothing be done in contravention to the authority vested in me by the Congress. But once I am arrested, the whole responsibility shifts to the Congress. No one who believes in non-violence, as a creed, need, therefore, sit still. My compact with the Congress ends as soon as I am arrested. In that case, wherever possible, civil disobedience of salt should be started. These laws can be violated in three ways. It is an offence to manufacture salt wherever there are facilities for doing so. The possession and sale of contraband salt, which includes natural salt or salt earth, is also an offence. The purchasers of such salt will be equally guilty. To carry away the natural salt deposits on the seashore is likewise violation of law. So is the hawking of such salt. In short, you may choose any one or all of these devices to break the salt monopoly.

Sub questions

Question Number : 191 Question Id : 2099632486 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Comprehension Passage-2

"Let no one commit a wrong in anger": What does 'wrong' in the sentence imply?

- (1) resort to non-violence
- (2) non-participation in the movement
- (3) resort to violence
- (4) utilize resources

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 192 Question Id : 2099632487 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Comprehension Passage-2

What is the meaning of "semblance of breach of peace" in the passage?

- (1) Peace should be disturbed in reality
- (2) Peace should not even seem to be disturbed
- (3) Violence should prevail
- (4) Everyone should be arrested

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 193 Question Id : 2099632488 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Comprehension Passage-2

When does the responsibility of continuing the struggle shift to the Congress?

- (1) Before the arrest of the speaker.
- (2) After the freedom fighters reach Jalalpur.
- (3) After the salt satyagraha is successful.
- (4) After the arrest of the speaker.

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Comprehension Passage-2

The non-violent struggle in the passage specifically refers to

- (1) Purchase of salt.
- (2) Salt Satyagraha.
- (3) Possession of contraband salt.
- (4) Breach of peace.

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Comprehension Passage-2

The speaker in the passage does not advocate for

- (1) possession of contraband salt.
- (2) manufacture of salt violating the law.
- (3) carrying away the natural deposits on the seashore.
- (4) breach of peace once the speaker is arrested.

Options :

1. ✓ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Sub-Section Number: 10
Sub-Section Id: 209963276
Question Shuffling Allowed : No

Question Id : 2099632491 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No Question Pattern Type : NonMatrix Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Question Numbers : (196 to 200)

SECTION - C : COMMUNICATION ABILITY – Comprehension Passage-3

The first thought that comes to my mind. It is not that India was never an independent country. The point is that she once lost the independence she had. Will she (lose) it a second time? It is this thought which makes me most anxious for the future. What perturbs me greatly is the fact that not only India has once before lost her independence, but she lost it by the infidelity and treachery of some of her own people. Will history repeat itself? It is this thought which fills me with anxiety. This anxiety is deepened by the realization of the fact that in addition to our old enemies in the form of castes and creeds. India would be a democratic country in the sense that would have a government of the people, by the people and for the people. The same thought comes to my mind. What would happen to her democratic constitution. It is not that India did not know what... democracy (is). Will she (lose) it a second time? I do not know. But it is quite possible in a country like India – where democracy from its long disuse must be regarded as something quite new – there is (a) danger of democracy giving place to dictatorship.

Sub questions

Question Number : 196 Question Id : 2099632492 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Comprehension Passage-3

What was the ‘system’ of governance India had?

- (1) A republic governance.
- (2) A parliamentary governance.
- (3) A constitutional governance.
- (4) A democratic governance.

Options :

1. ✓ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 197 Question Id : 2099632493 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Comprehension Passage-3

The word ‘infidelity’ means in the context of the passage ____ .

- (1) disloyalty
- (2) loyalty
- (3) honesty
- (4) faithfulness

Options :

1. ✓ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 198 Question Id : 2099632494 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Comprehension Passage-3

What made India lose her independence in the past ?

- (1) Democratisation
- (2) First thought
- (3) Infidelity and teachery
- (4) Repetition of history

Options :

1. ✓ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 199 Question Id : 2099632495 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Comprehension Passage-3

The author's 'anxiety' in the passage is about _____ .

- (1) caste and creed
- (2) political parties
- (3) the people
- (4) dictatorship

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 200 Question Id : 2099632496 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Comprehension Passage-3

What is the “new” thing that democracy from its long disuse gives rise to ?

- (1) Supremacy
- (2) Dictatorship
- (3) Democracy
- (4) Bureaucracy

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4