

SNUSAT Sample Paper

Section : Logical Reasoning

QUESTION.1- In a certain code, GOAL = HPBM. How is RISK coded?

- A. SJTL
- B. SHRJ
- C. TJSM
- D. SITL

QUESTION.2- Select the word-pair in which the two words are related in the same way as are the two words in the following word-pair.

Army : General

- A. Hospital : Patient
- B. Company : Director
- C. College : Student
- D. Worker : Factory

QUESTION.3- Find the missing term in the given series: 3, 8, 15, 24, 35, ?

- A. 46
- B. 48
- C. 50
- D. 52

QUESTION.4- Which number in the given series is incorrect?

3, 7, 7, 11, 9, 13, 13, 17, 15, 23

- A. 17
- B. 9
- C. 23
- D. 13

QUESTION.5- A man walks 10 m East, then 5 m South, then 10 m West. How far is he from the starting point?

- A. 5 m
- B. 10 m
- C. 15 m

D. 20 m

QUESTION.6- If ' $\div$ ' means '+', ' $\times$ ' means ' $\div$ ', '+' means '-' and '-' means ' $\times$ ', then what is the value of the following expression?

$$16 - 4 + 12 \times 3 \div 5 = ?$$

A. 59

B. 53

C. 65

D. 67

QUESTION.7- A, B, C, D, E sit in a line. B is between A and C. D is to the right of C. Who sits at the extreme left?

A. A

B. B

C. C

D. D

QUESTION.8- 'Lethargy' is related to 'Alertness' in the same way as 'Hostility' is related to:

A. Violence

B. Cordiality

C. Pride

D. Antagonism

QUESTION.9- Find the missing term in the given series: A 1 C 2 E 3 G 4 I 5 ?

A. K

B. J

C. L

D. H

QUESTION.10- Select the correct alternative to indicate the arrangement of the following words in a logical and meaningful order.

1. Karnataka 2. Bengaluru 3. Asia 4. India 5. World

A. 1, 5, 4, 3, 2

B. 2, 3, 4, 1, 5

C. 3, 4, 2, 1, 5

D. 2, 1, 4, 3, 5

QUESTION.11- Consider the following statements to be true even if they seem to be at variance from commonly known facts and decide which of the conclusions logically follows from the statements.

Statements:

All cats are animals.

Some animals are wild.

Conclusions:

I. Some cats are wild.

II. All animals are cats.

A. Only I follows

B. Only II follows

C. Both follow

D. Neither follows

QUESTION.12- Three of the following four numbers are alike in a certain way and one is different. Find the odd one out.

A. 594

B. 693

C. 462

D. 573

QUESTION.13- A is the sister of B. C is the mother of A. D is the brother of C. What is D to B?

A. Uncle

B. Brother

C. Father

D. Grandfather

QUESTION.14- Three of the following four pairs of numbers are alike in a certain way and one is different. Find the odd one out.

A. 63 - 72

B. 104 - 117

C. 136 - 153

D. 152 - 171

QUESTION.15- Find the wrong term in the number series: 23, 29, 31, 37, 39

A. 23

B. 29

C. 39

D. 31

QUESTION. 16 Select the number that will satisfy the analogy to the given number ?.

5 (25) 3

7 (49) 5

9 (?) 4

A. 81

B. 36

C. 45

D. 95

QUESTION.17- Find the next in the Symbol Series

▲ ▼ ▼ ▲ ▲ ▼ ▼ ▼ ▲ ?

A. ▲

B. ▼ ▼

C. ▼ ▲

D. ▲ ▲

QUESTION.18 . Which letter-cluster will replace the question mark (?) in the following series?

DEY, FFW, IGT, KHR, NIO, ?

A. QJM

B. PJM

C. PJN

D. QJN

QUESTION.19- Tina is 75 m South-East of VeenA. Reena is 75 m South-West of VeenA. Tina is to the _____ of ReenA.

A. South

B. East

C. West

D. North

QUESTION. 20-Three of the following four words are alike in a certain way and one is different.

Find the odd one out.

A. Triumph

- B. Setback
- C. Victory
- D. Success

Quantitative Aptitude

QUESTION.1- The number 30744 is divisible by which of the single digit numbers:

- A. All numbers except 5 and 7
- B. Only by 2, 3, 6 and 9
- C. Only by 2, 3 and 6
- D. All numbers except 5

QUESTION.2- If $a + b + c = 0$, then what is the value of $a^3 + b^3 + c - 3abc = ?$

- A. -1
- B. 1
- C. 0
- D. 2

QUESTION.3: The radius of a wheel is 7 cm. How much distance will be travelled by the wheel in 10 revolutions?

- A. 440 cm
- B. 480 cm
- C. 400 cm
- D. 420 cm

QUESTION.4: If $\sec \theta - \tan \theta = 5$. then what is the value of $\sec \theta + \tan \theta$?

- A. $1/5$
- B. $1/3$
- C. $1/6$
- D. $1/2$

QUESTION.5: Angle subtended by a chord xy on the centre of a circle is 180 degree, If length of this chord is 48 cm, then what will be the radius of this circle?

- A. 24 cm
- B. 18 cm

C. 27 cm

D. 21 cm

QUESTION.6- What is the value of $\left(\frac{1+\sec^2 A}{1+\cos^2 A}\right) \left(\frac{1+\sin^2 A}{1+\operatorname{cosec}^2 A}\right)$?

A. $\cos^2 A$

B. $\operatorname{cosec}^2 A$

C. $\sec^2 A$

D. $\tan^2 A$

QUESTION.7- Find the area of a triangle whose length of each side is 13 inches, 15 inches and 14 inches.

A. 84 square inches

B. 81.2 square inches

C. 42.1 square inches

D. 84.2 square inches

QUESTION.8: If 25 percent of P is added to 50 percent of Q, then the resultant comes a 100 percent of **QUESTION.** P is what percentage of Q?

A. 125 percent

B. 200 percent

C. 225 percent

D. 150 percent

QUESTION.9- $\frac{2}{5}$ of marked price is equal to $\frac{5}{8}$ of selling price. What is the discount percent?

A. 40 percent

B. 42 percent

C. 36 percent

D. 50 percent

QUESTION.10- Length of a chord is 16 cm in a circle whose radius is 17 cm. What will be the distance of this chord from the centre?

A. 12 cm

B. 9 cm

C. 15 cm

D. 8 cm

QUESTION.11- T alone can do a piece of work in 12 days and M alone can do the same work in 15 days, If T and M undertook to do this work for Rs. 18,000, then how much amount will M get, if they work together?

- A. Rs. 10,000
- B. Rs. 6,000
- C. Rs. 12,000
- D. Rs. 8,000

QUESTION.12- Radii of two circles are 12 cm and 5 cm. The distance between their centres is 25 cm. What is the length of the direct common tangent?

- A. 21 cm
- B. 24 cm
- C. 22 cm
- D. 23 cm

QUESTION.13- The average age of 30 students is 15 years. It was observed that while calculating the average age, the age of a student was taken as 45 years instead of 15 years. What will be the correct average age?

- A. 14.2 years
- B. 16.4 years
- C. 15.6 years
- D. 14 years

QUESTION.14- A car travels a distance of 120 km at uniform speed, If the speed of car is increased by 8 km/hr, then it takes 4 hours less to cover the same distance. What is the original speed of the car?

- A. 12 km/hr
- B. 16 km/hr
- C. 10 km/hr
- D. 15 km/hr

QUESTION.15- A person sells wheat at a profit of 25 percent. If he reduces its selling price by Rs. 30, then he suffers a loss of 25 percent. What was the initial selling price of the wheat?

- A. Rs. 80
- B. Rs. 120
- C. Rs. 60
- D. Rs. 100

QUESTION.16- What is the value of $44 \times 12 - (25 + 13 \times 10)$?

- A. 613
- B. 633
- C. 573

D. 373

QUESTION.17- If $p/q = r/s = t/u = 2/5$, then what is the value of $(4p + 3r + 7t) : (4q + 3s + 7u)$?

A. 4 : 11

B. 3 : 7

C. 2 : 5

D. 5 : 9

QUESTION.18- The average of 22, 24, 28, 21, 26 and x is 25. What will be the value of x?

A. 31

B. 29

C. 27

D. 28

QUESTION.19- What will be the compound interest on Rs. 14,000 for 2 years at the rate of 10% per annum compounded annually?

A. Rs. 1,490

B. Rs. 6,940

C. Rs. 3,490

D. Rs. 2,940

QUESTION.20- The ratio of the ages of A and B is 5:7. After 6 years, the ratio becomes 3:4. What is A's present age?

a) 15

b) 18

c) 30

d) 24

ANSWER KEY

QUESTION. Number- Answer	Logical Reasoning	Quantitative Aptitude
1	C	B
2	B	C
3	B	A
4	D	A
5	A	A
6	A	D
7	A	A
8	B	B
9	A	C
10	D	C
11	D	D
12	D	B
13	A	D
14	A	A
15	C	C
16	A	D
17	D	C
18	B	B
19	D	D
20	B	C

