

MAT Mock Test Paper-1

MANAGEMENT APTITUDE TEST

INSTRUCTIONS

- This Mock Test Paper contains 150 Questions structured across 5 sections.
- Section A: Language Comprehension (Q1 –Q30)
- Section B: Intelligence and Critical Reasoning (Q31 –Q60)
- Section C: Mathematical Skills (Q61 –Q90)
- Section D: Data Analysis and Sufficiency (Q91 –Q120)
- Section E: Indian and Global Environment (Q121 –Q150)
- Marking Scheme: +1 Mark for every correct Response; -0.25 Mark deduction for every incorrect Response .

SECTION A: LANGUAGE COMPREHENSION

PASSAGE FOR QUESTIONS 1 TO 5

Forsome time now, accountability has become the buzzword in school education. Everyone seems to have suggestions about 'fixing' education by holding teachers accountable for student test scores. But we should ask ourselves whether test scores are the only way to assess how well education systems are performing, whether teachers are the only ones to blame for low performing systems and whether 'blame' itself is the right approach at all. UNESCO's new Global Education Monitoring Report 2017-18 is a comprehensive and nuanced look at the role of accountability in global education systems in the effort to achieve the vision of the UN Sustainable Development Goal (SDG) to ensure inclusive and quality education for all and to promote lifelong learning. The report points out that providing universal quality education depends not on the performance of teachers alone, but is the shared responsibility of several stakeholders: governments, schools, teachers, parents, the media and civil society, international organisations and the private sector.

Q1. It is implied in the passage that:

- (a) blame has no place if education systems have to flourish
- (b) of late it has become fashionable to discuss accountability
- (c) test scores are no indicators of how good education is
- (d) every parent would like to hold teachers accountable

- Q2. Which of the following statements is most likely supported by the passage?
- (a) Overemphasis on marks scored will tend to cause differences
 - (b) Teachers have to take their share of responsibility as stakeholders
 - (c) Some amount of blame is inevitable
 - (d) Blame has no place in any global education system
- Q3. In the context of the passage, the phrase 'to the test' implies:
- (a) that teachers themselves are constantly under scrutiny
 - (b) a narrow focus on passing the exams
 - (c) that teachers in India keep on taking classes right upto exam
 - (d) None of the above
- Q4. UNESCO's new Global Education Monitoring Report 2017-18 was prepared primarily:
- (a) to absolve teachers of any blame
 - (b) to suggest that private commercial interests have taken over
 - (c) to cater to the growing demand to 'fix' teachers
 - (d) as an effort to fix accountability in school education
- Q5. A synonym for the word 'nuanced' as used in the passage is:
- (a) slightly different
 - (b) very critical
 - (c) highly appreciative
 - (d) deeply analytical

PASSAGE FOR QUESTIONS 6 TO 10

Government of India decision to allow 49% foreign airline equity in Air India is good news. The rules were changed last year permitting 100% foreign equity in Indian carriers, restricting foreign airlines holding to 49%-excluding Air India. The move will attract better valuation for the national carrier. The news that the Tatas have shown interest to bid for Air India, along with Singapore Airlines, after the Union Cabinet amended the rules has spread cheer. It is only befitting that the once great airline, now decrepit, goes back into the hands of the business house that founded and nurtured it in its formative years.

- Q6. It could be inferred from the passage that JRD Tata:
- A. had founded and shaped Tata Airlines into an internationally reputed air carrier.
 - B. was deeply involved in social work during his life time.
 - C. worked as the head of the airline business even after Tata Airways was taken over by GoI.
- (a) A and B
 - (b) B and C
 - (c) C and A
 - (d) A, B and C
- Q7. It is evident from the passage that Air India:
- A. is up for an outright sale to the Tatas.
 - B. is open to collaborate with a foreign airline.
 - C. still commands a place in the hearts of the people of India.
- (a) Only A
 - (b) Only B
 - (c) B and C
 - (d) A, B and C
- Q8. Which of the following statements is accurate in the context of this passage?
- (a) The Tatas are already running a global airline service
 - (b) Air India did not achieve its true worth in all the long years

(c) GoI announced sale of Air India to foreign airline (d) All of the above

Q9. The author of this passage is of the view that the Government of India (GoI):

- (a) forcefully and illegally seized the airlines business of Tatas
- (b) nationalised the airlines business of the Tatas
- (c) took over the airlines business of the Tatas to fill coffers
- (d) could easily hand back Air India to Tatas

Q10. In the context of the passage, the word 'intrepid' most nearly means:

- (a) addicted
- (b) adventurous
- (c) lovable
- (d) expert

Q11. Choose the order of sentences marked A, B, C, D and E to form a logical paragraph:

- A. But this time a curious philosophy has emerged.
- B. However, it seems that a regulatory solution is yet far away.
- C. It says that the more we know about a problem, the more uncertainty is introduced.
- D. The recent debates on acid rain have pitted environmentalists head to head against industry.
- E. As a result, today we know more about acid rain and its effect than ever before.

- (a) ABDEC
- (b) DACEB
- (c) CEBAD
- (d) BADCE

Q12. Choose the order of sentences marked A, B, C, D and E to form a logical paragraph:

- A. A film director has to translate the given scenario into visual medium.
- B. A novelist works in the written word.
- C. Whereas the film director works in pictures, in visual movement.
- D. The pictures may be supported by speech and sound.
- E. But primarily the film is a pictorial art.

- (a) ABCDE
- (b) CDEAB
- (c) BCDEA
- (d) EDCBA

Q13. Rearrange the following sentences to form a coherent paragraph:

- A. The more fundamental and far reaching a scientific theory, the more speculative it is likely to be.
- B. But speculation is its very life blood.
- C. A mature science tries to arrange facts in significant patterns to see relationship between unrelated aspects.
- D. Idle speculation has no place in science.
- E. It is erroneous to believe that science is only concerned with pure facts.

- (a) DBAEC
- (b) AECBD
- (c) BDCEA
- (d) AECDB

Q14. Rearrange the following sentences to form a logical narrative:

- A. Seconds later, the glaring object swept past and he thought he had outmaneuvered it.
- B. While flying over enemy territory, Jones received warning of an oncoming missile.
- C. He was proved wrong when he saw the vertical tail fins on fire.
- D. Without wasting time, he slammed throttles forward and made plane roll into high speed turn.

E. Hardly had he responded to message when he actually saw whatever he dreaded most.

- (a) EDCBA (b) BCDEA
- (c) DAECB (d) BEDAC

Q15. Select the option that best captures the essence of the short text below:

In a free-wheeling interaction with members of Indian press stationed in Colombo, Mr Rajapaksa said speculating about his health had become an obsession for some.

- (a) Speculating about Mr Rajapaksa's health had become an obsession (b) During a talk with Indian journalists, Mr Rajapaksa said speculating about health became obsession
- (c) Mr Rajapaksa interacted with Indian press corps in Colombo (d) The logo for Hambantota's bid was unveiled in Colombo

Q16. Select the option that best captures the essence of the text:

E-waste refers to electronic and electrical waste and comprises electronic devices and components. It poses some serious health hazards.

- (a) Discarded computers can percolate lead into soil (b) E-waste is waste created by electronic products whose lifespan ended and pose threat to health & environment
- (c) People handling e-waste are at risk of radiation (d) E-waste should be managed carefully

Q17. Choose the option that best summarizes the text:

There was a time when children rattled predictable career options. Now children chime 'I want to be famous'. Reality shows are changing their perceptions.

- (a) Forget being an engineer, children want stardom as career (b) Exposure to television changed mindset of parents and children to look beyond conventional careers
- (c) Kids and teens find it hard to resist celebrity status (d) Reality TV shows opened floodgates of opportunities

Q18. Choose the option that best captures the essence of the statement:

Industrialist Ratan Tata has questioned in Supreme Court the lackadaisical attitude of Centre in allowing free distribution of private conversations.

- (a) Ratan Tata moved Supreme Court to prevent DG Income Tax from recording (b) Ratan Tata moved Supreme Court against Centre
- (c) Ratan Tata moved Supreme Court to prevent Nira Radia from disclosing info (d) Ratan Tata is unhappy over government's attitude in not providing privacy to conversations

Q19. Rearrange letters of BRENYA to identify correct word and select OPPOSITE in meaning:

- (a) delight (b) discover
- (c) distant (d) direct

Q20. Rearrange letters of OSYIN and select option OPPOSITE in meaning:

- (a) happy (b) quiet
- (c) laugh (d) sleep

Q21. Rearrange SISPNHAPE and find word OPPOSITE in meaning:

- (a) surrender (b) quickness
- (c) richness (d) sorrow

Q22. Fill in the blanks: 'If mankind has to survive for long, it must _____ and deliberately renounce fruits of _____ and whirling technology.'

- (a) willfully, wild (b) honestly, responsible
(c) sincerely, labour (d) effectively, sliding

Q23. Fill in the blanks: 'Pipes are not a safer _____ to cigarettes because, though pipe smokers do not inhale, they are still _____ getting lung and mouth cancers.'

- (a) preference, not free from (b) answer, responsible for
(c) alternative, prone to (d) rejoinder, involved in

Q24. Fill in the blanks: 'Television serials are characterised by a/an _____ story line and _____ plots and sub-plots.'

- (a) unending, convoluted (b) infantile, simple
(c) uniform, emotional (d) extempore, routine

Q25. Rearrange jumbled alphabets and find the odd one out:

- (a) THIRS (b) SSCOK
(c) CEILNP (d) TANP

Q26. Rearrange jumbled alphabets and find the odd one out:

- (a) OSCETOR (b) EPNAL
(c) ROTOM KEBI (d) ELCYC

Q27. Rearrange jumbled alphabets and find the odd one out:

- (a) RICHA (b) EATLB
(c) LOOST (d) NPAAJ

Q28. Identify best way of writing sentence in standard written English:

- (a) If constants 'a' and 'b' were known, thus we should have solution (b) We should thus have a solution to our problem, if constants 'a' and 'b' are known
(c) We should, if constants 'a' and 'b' were known, thus have solution (d) We should thus have solution to problem, if constants 'a' and 'b' are known

Q29. Identify correct usage of standard written English:

- (a) Excellence will come when performer takes pride in doing his best (b) Excellence comes as performer will take pride
(c) The excellence will come when performer will take pride (d) Excellence comes when the performer takes pride in doing his best

Q30. Identify best written sentence:

- (a) We can divide problem into parts in present case firstly by considering events (b) In present case, we can divide problem into parts by considering events first
(c) By considering first events which are localised on x-axis, in present case we can divide (d) In present case, we can divide problem into parts by first considering events which are localised on x-axis

SECTION B: INTELLIGENCE AND CRITICAL REASONING

Directions (Q31-Q34): Mark (a) If both A and R are true and R is the correct explanation of A; (b) If both A and R are true but R is not the correct explanation of A; (c) If A is true but R is false; (d) If A is false but R is true.

Q31. Assertion (A): India is a democracy.

Reason (R): People elect their own representatives who form the government.

- (a) Both A and R true, R correct explanation (b) Both A and R true, R not correct explanation
(c) A is true, R is false (d) A is false, R is true

Q32. Assertion (A): In India, 2nd October is observed as 'Martyr's Day'.

Reason (R): Pt. Nehru was the first Prime Minister of India.

- (a) Both A and R true, R correct explanation (b) Both A and R true, R not correct explanation
(c) A is true, R is false (d) A is false, R is true

Q33. Assertion (A): Copper is used to make electrical wires.

Reason (R): Copper is a good conductor of electricity.

- (a) Both A and R true, R correct explanation (b) Both A and R true, R not correct explanation
(c) A is true, R is false (d) A is false, R is true

Q34. Assertion (A): India celebrates its Independence Day on 15th August.

Reason (R): India became independent on 15th August, 1947.

- (a) Both A and R true, R correct explanation (b) Both A and R true, R not correct explanation
(c) A is true, R is false (d) A is false, R is true

INFORMATION FOR QUESTIONS 35 TO 39

- (i) Madhuri and Shobhan are good in Dramatics and Computer Science.
(ii) Archana and Madhuri are good in Computer Science and Physics. (iii)
Archana, Poornima and Nishant are good in Physics and History. (iv)
Nishant and Archana are good in Physics and Mathematics.
(v) Poornima and Shobhan are good in History and Dramatics.

Q35. Who is good in Dramatics, Physics and Computer Science?

- (a) Archana (b) Nishant
(c) Madhuri (d) Poornima

Q36. Who is good in Computer Science, Physics, Mathematics and History?

- (a) Poornima (b) Nishant
(c) Madhuri (d) Archana

Q37. Who is good in Physics, History and Mathematics but not in Computer Science?

- (a) Madhuri (b) Shobhan
(c) Nishant (d) Archana

Q38. Who among the following is good in Computer Science, Dramatics and History?

- | | |
|-------------|-------------|
| (a) Archana | (b) Madhuri |
| (c) Shobhan | (d) Nishant |

Q39. Who is good in Dramatics, Physics and History?

- | | |
|-------------|--------------|
| (a) Nishant | (b) Shobhan |
| (c) Madhuri | (d) Poornima |

INFORMATION FOR QUESTIONS 40 TO 44

- (i) S, T, U, V, W, X and Y are sitting in a row all facing North.
- (ii) V is sitting immediate left of U.
- (iii) T is sitting at an extreme end and W is his neighbour.
- (iv) V is third from one of the ends.
- (v) Y is sitting between X and W.

Q40. Who is sitting on the right of Y?

- | | |
|-------|-------|
| (a) S | (b) X |
| (c) V | (d) U |

Q41. Who is sitting exactly in the middle of the row?

- | | |
|-------|-------|
| (a) S | (b) X |
| (c) W | (d) U |

Q42. Who is sitting immediately left to V?

- | | |
|-------|-------|
| (a) S | (b) X |
| (c) W | (d) U |

Q43. Who is at the other end of the row?

- | | |
|-------|-------|
| (a) S | (b) X |
| (c) V | (d) U |

Q44. Which of the following is correct regarding U?

- | | |
|--------------------------------------|---------------------------------------|
| (a) Sitting left of W | (b) Sitting left of V |
| (c) Sitting in the middle of the row | (d) Sitting second from the other end |

Q45. Pick up the pair that best illustrates similar relationship: River : Ocean

- | | |
|--------------------|--------------------|
| (a) Child : School | (b) Book : Library |
| (c) Lane : Road | (d) Cloth : Body |

Q46. Pick up the pair that best illustrates similar relationship: Sound : Muffled

- | | |
|----------------------|---------------------|
| (a) Moisture : Humid | (b) Colour : Faded |
| (c) Despair : Anger | (d) Odour : Pungent |

Q47. Pick up the pair that best illustrates similar relationship: Chair : Wood

- | | |
|------------------|--------------------|
| (a) Book : Print | (b) Mirror : Glass |
|------------------|--------------------|

- (c) Plate : Food (d) Purse : Money

Q48. Pick up the pair that best illustrates similar relationship: Glove : Hand

- (a) Neck : Collar (b) Tie : Shirt
(c) Socks : Feet (d) Coat : Pocket

Q49. Complete the series: AB11CD, EF13GH, IJ17KL, '?'

- (a) MN18OP (b) MN19OP
(c) MN21OP (d) MN23OP

Q50. Complete the series: Y4X9, W16V25, '?', S64R81

- (a) U39T49 (b) U36T49
(c) U32T48 (d) U36T46

Q51. Complete the series: T49S64, R81Q100, P121O144, '?'

- (a) N169M196 (b) N160M190
(c) N164M194 (d) N170M200

Q52. Complete the series: BD3FH, AC5EG, JL7NP, '?'

- (a) IK9MO (b) IK11MO
(c) IK13MO (d) IK17MO

Q53. Complete the series: X24C3, V22E5, T20G7, '?'

- (a) R16I7 (b) R17I9
(c) R18I9 (d) R19I10

Q54. Sohan said to Mohan, 'This girl is the wife of the grandson of my mother'. How is Sohan related to this girl?

- (a) Grandfather (b) Father
(c) Husband (d) Father-in-law

Q55. There are five books A, B, C, D and E. Book C lies above D. Book E is below A, D is above A, B is below E. Which book is at the bottom?

- (a) E (b) B
(c) A (d) C

Q56. Five students participated in examination. Sudha scored higher than Puja. Kavita scored lower than Suma but higher than Sudha. Mamta scored between Puja and Sudha. Who scored lowest?

- (a) Kavita (b) Puja
(c) Mamta (d) Sudha

Q57. Pointing to a lady, Vikram said, 'She is the only daughter of my father-in-law's wife'. How is this lady related to Vikram?

- (a) Mother (b) Wife
(c) Cousin (d) Sister

Q58. Pointing to a lady, Rishi said, 'The son of her brother is the brother of my wife'. How is

this lady related to Rishi?

- (a) Mother-in-law (b) Mother's sister
(c) Sister of father-in-law (d) None of the above

Q59. A ten-rupee coin is placed on plain paper. How many coins of same size can be placed around it touching central and adjacent coins?

- (a) 4 (b) 3
(c) 7 (d) 6

Q60. Statement: Power consumption in every family has doubled during last five years.
Conclusions: I. There is lot of development in society. II. Power rates have become cheaper.

- (a) If Conclusion I follows (b) If Conclusion II follows
(c) If neither I nor II follows (d) If both I and II follow

SECTION C: MATHEMATICAL SKILLS

Q61. In a fraction, numerator is increased by 25% and denominator is diminished by 10%. The new fraction obtained is $\frac{5}{9}$. The original fraction is:

- (a) $\frac{2}{5}$ (b) $\frac{5}{9}$
(c) $\frac{3}{5}$ (d) None of these

Q62. A person covers the first $\frac{1}{4}$ th of distance at 8 km/h, next $\frac{3}{5}$ th at 6 km/h and remaining at 15 km/h. Find average speed during journey.

- (a) $25\frac{25}{47}$ km/h (b) $5\frac{9}{11}$ km/h
(c) $7\frac{9}{113}$ km/h (d) $107\frac{11}{47}$ km/h

Q63. The ratio of two numbers is 5 : 9. If each number is decreased by 5, the ratio becomes 5 : 11. Find the numbers.

- (a) 11, 17 (b) 15, 27
(c) 12, 16 (d) 19, 21

Q64. ₹770 has been divided among A, B and C such that A receives $\frac{2}{9}$ th of what B and C together receive. Then A's share is:

- (a) ₹140 (b) ₹156
(c) ₹164 (d) ₹172

Q65. If the side of a square is increased by 20%, its area is increased by k%. Find the value of k.

- (a) 23 (b) 27
(c) 33 (d) 44

Q66. The value of a cycle is ₹6250. It decreases by 10% during first year, 20% during second year and 30% during third year. Value after 3 years?

- (a) ₹2650 (b) ₹3050
(c) ₹3150 (d) ₹3350

Q67. There is a sequence of 11 consecutive odd numbers. If average of first 7 numbers is x, find

average of all 11 integers.

- (a) $x+3$ (b) $x+4$
(c) x (d) $x+7$

Q68. What will be compound interest on sum of ₹1875 after 2 yrs if rate of interest for first year is 4% and second year is 8%?

- (a) ₹231 (b) ₹341
(c) ₹241 (d) None of these

Q69. If a mixture contains water and milk in ratio 2 : 3, what is percentage quantity of water in mixture?

- (a) 25% (b) 29%
(c) 35% (d) 40%

Q70. Half the girls and $\frac{1}{3}$ of boys reside in hostel. What fraction of student body is hostel dwellers if total girls is 100 and is $\frac{1}{4}$ of total strength?

- (a) $\frac{2}{5}$ (b) $\frac{5}{12}$
(c) $\frac{1}{5}$ (d) $\frac{3}{8}$

Q71. A man rows to a place 48 km distant and back in 14 h. He can row 4 km downstream in same time as 3 km upstream. Rate of stream is:

- (a) 1.0 km/h (b) 1.5 km/h
(c) 2.0 km/h (d) 2.5 km/h

Q72. How much water be added to 14 L of milk worth ₹5.40 a litre so that value of mixture may be ₹4.20 a litre?

- (a) 8 L (b) 7 L
(c) 5 L (d) 4 L

Q73. Cost of plastering four walls of room is ₹48. Each dimension of another room is double. Cost of plastering new room is:

- (a) ₹192 (b) ₹224
(c) ₹296 (d) ₹314

Q74. A rectangular piece of card is 71 cm long and 10 cm wide. Cylinder is formed by rolling card along breadth. Volume of cylinder ($\pi = \frac{355}{113}$)?

- (a) 540 cm^3 (b) 555 cm^3
(c) 565 cm^3 (d) 579 cm^3

Q75. Find volume of largest possible sphere circumscribed by a cube of edge 8 cm.

- (a) 18.31 cm^3 (b) 21.61 cm^3
(c) 26.81 cm^3 (d) None of these

Q76. A cistern is normally filled in 8 h but takes 2 h longer to fill because of a leak. If full, leak will empty it in:

- (a) 30 h (b) 35 h
(c) 40 h (d) 45 h

Q77. A boatman goes 2 km against current in 1 h and 1 km along current in 10 min. How long to go 5 km in stationary water?

- (a) 60 min (b) 75 min
- (c) 90 min (d) 40 min

Q78. 300 gm of sugar solution has 40% sugar. How much sugar should be added to make it 50% in solution?

- (a) 50 gm (b) 60 gm
- (c) 75 gm (d) 90 gm

Q79. One person speaks truth in 80% cases and another in 90% cases. Stating same fact, probability that they contradict?

- (a) $\frac{37}{50}$ (b) $\frac{13}{50}$
- (c) $\frac{16}{50}$ (d) None of these

Q80. If area of a square is 33 sq cm, find area of circle formed by same perimeter.

- (a) 36 sq cm (b) 42 sq cm
- (c) 46 sq cm (d) 50 sq cm

Q81. A number consists of two digits whose sum is 7. If digits are reversed, number increases by 27. The number is:

- (a) 25 (b) 34
- (c) 16 (d) 52

Q82. Sum of ages of A and B is 42 yr. 3 yr back, age of A was 5 times age of B. Find difference between present ages of A and B.

- (a) 21 yr (b) 23 yr
- (c) 24 yr (d) 27 yr

Q83. A and B started business with investments in ratio 5 : 7. After 1 yr profits in ratio 1 : 2. If A invested for 7 months, B invested for:

- (a) 6 months (b) 2.5 months
- (c) 10 months (d) 4 months

Q84. Shopkeeper sold T-shirts at ₹266 each after 5% discount. Had he not given discount, profit would be 12%. Cost price of T-shirt?

- (a) ₹245 (b) ₹250
- (c) ₹255 (d) ₹260

Q85. Find annual instalment that will discharge a debt of ₹12900 due in 4 yr at 5% p.a. simple interest.

- (a) ₹2200 (b) ₹2400
- (c) ₹2700 (d) ₹3000

Q86. 24 is divided into two parts such that 7 times first part added to 5 times second part makes 146. First part is:

- (a) 13 (b) 15

- (c) 17 (d) 19

Q87. LCM of two numbers is 45 times HCF. One number is 125 and sum of HCF and LCM is 1150. Find the other number.

- (a) 275 (b) 215
(c) 230 (d) 225

Q88. Two numbers are 32% and 20% less than a third number. What per cent is the first of the second?

- (a) 85% (b) 70%
(c) 65% (d) 52%

Q89. A starts business with capital ₹3500 and 5 months later B joins. After a year profit is divided in ratio 2 : 3. B contributed:

- (a) ₹7000 (b) ₹11000
(c) ₹9000 (d) None of these

Q90. Ramesh sold two bikes, each for ₹24000. He makes 20% profit on first and 15% loss on second. Overall gain/loss %?

- (a) (+) 20/41 % (b) (-) 17/20 %
(c) (-) 20/41 % (d) (+) 17/20 %

SECTION D: DATA ANALYSIS AND SUFFICIENCY

Direction For Question 91 TO 95

The adult population of a town in 1990 was 20,440 of which 53% were females. 60% of the total adult population was illiterate and 17% of the total adult population was above 50 years of age. In 2000, the adult population reached 30,760 of which 48% were females. 72% of the total adult population was below 50 years of age and the total number of illiterates was 7,000.

Q91. If an adult female below 50 years of age was given an annual allowance of ₹24,000 in 1990 and ₹30,000 in 2000, by what per cent has the total annual allowance given to adult females below 50 years of age changed in 2000 over 1990?

- (a) 108% (b) 191%
(c) 208% (d) 180%

Q92. What has been the percentage increase in the number of adult literates from 1990 to 2000?

- (a) 127% (b) 191%
(c) 132% (d) 275%

Q93. If the expense per literate adult in 1990 was ₹1,200 and it increased by 25% in 2000, the percentage increase in the total expenditure on literate adults in 2000 over 1990 is:

- (a) 236% (b) 263%
(c) 250% (d) 178%

Q94. The ratio of the number of adult females below 50 years of age in the year 1990 to that in the year 2000 is:

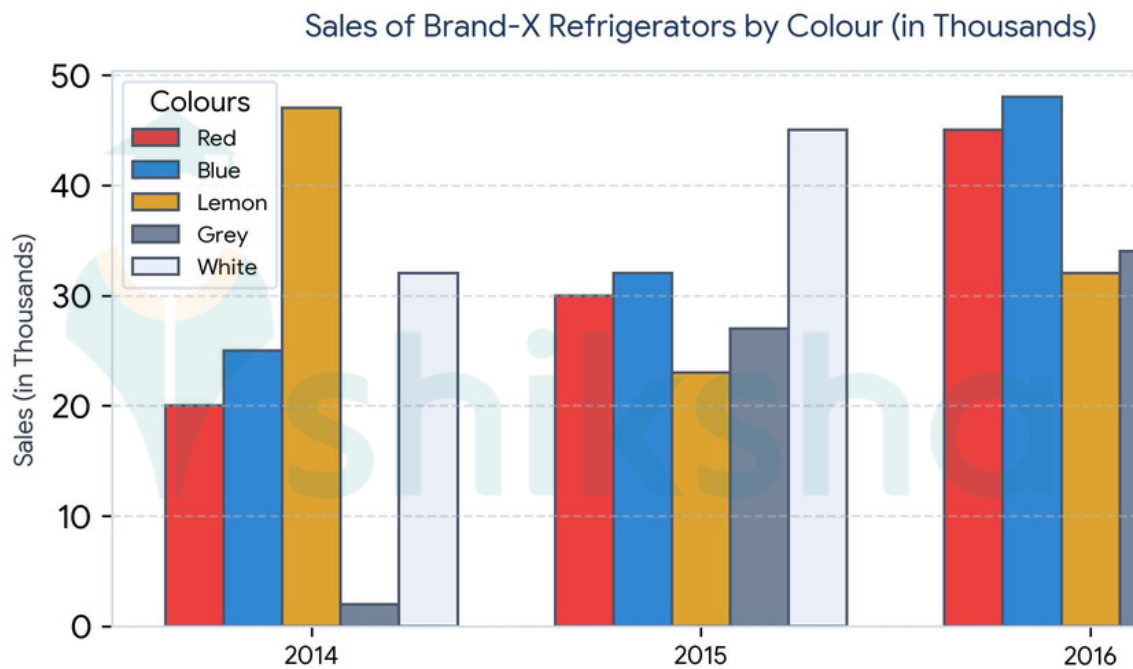
- (a) 1.25 : 1 (b) 1 : 1.25
(c) 1 : 1.18 (d) 1.13 : 1

Q95. The ratio of the total number of adult illiterates in 1990 to the total number of adult females below 50 years of age in 2000 is:

- (a) 1 : 1.8 (b) 1.15 : 1
(c) 0.87:1 (d) 1 : 1.15

Direction for Question No. 96 TO 100

Refer to the bar chart graphic below showing Sales of Different Colours of Brand-X Refrigerator (in thousands) for Years 2014, 2015, and 2016:



Q96. Over given 3 years, which has been highest selling colour and what % of volume did it account for?

- (a) Blue, 21% (b) White, 25%
(c) White, 26% (d) Lemon, 28%

Q97. What is approximately ratio of sales of Red, Lemon and White in 2015 to combined sales of Blue and Grey in 2014 and 2016?

- (a) 9 : 10 (b) 10 : 9
(c) 11 : 12 (d) 1 : 1.2

Q98. Sale of which colour(s) registered highest percentage increase between 2015 and 2016?

- (a) Blue (b) Lemon
(c) Red and Blue (d) Grey

Q99. Sales volume in 2016 is what per cent of total sales during three years?

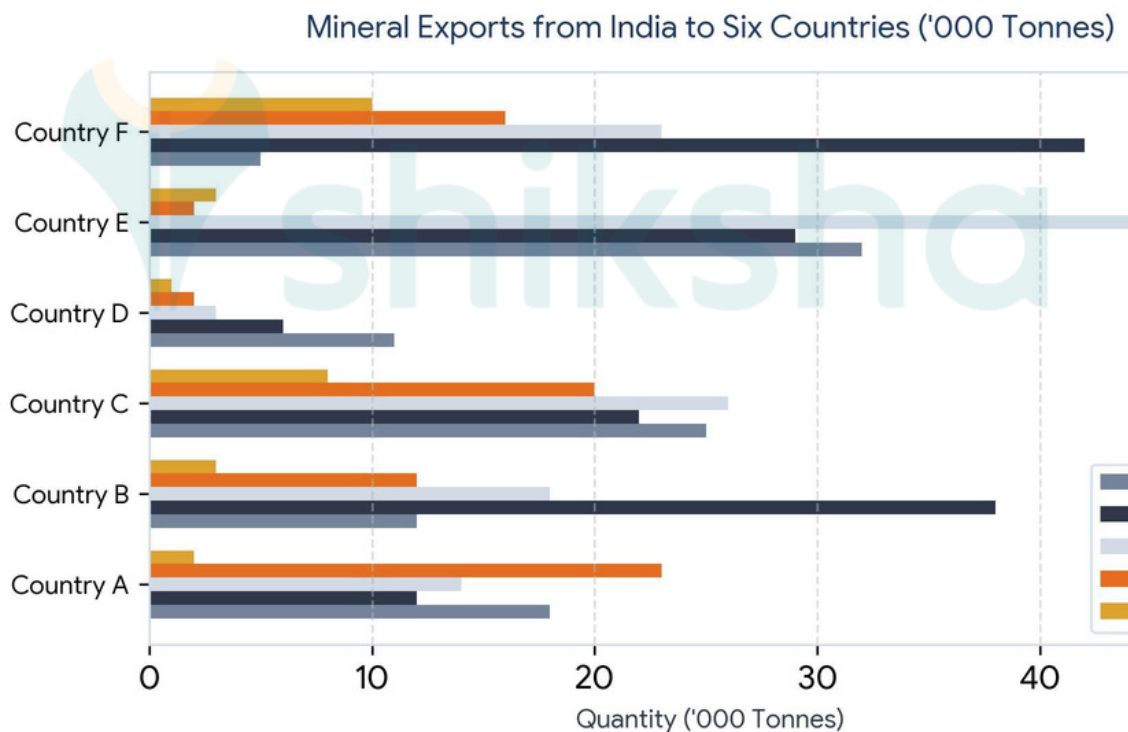
- (a) 43.26% (b) 46.14%
(c) 44.16% (d) 41.64%

Q100. How many instances are there where difference in sales was $\geq 35\%$ compared to previous year?

- (a) 4 (b) 5
(c) 6 (d) 7

Direction for QUESTIONS 101 TO 105

Refer to the horizontal bar chart below showing Quantities of Minerals Exported from India to Six Countries (in '000 tonnes):



Q101. If India decides to ban the export of Gold completely, by what per cent should the export of all the remaining minerals increase so that the total export quantity remains unchanged?

- (a) 18%
- (b) 3%
- (c) 32%
- (d) 6%

Q102. If the demand for Coal rises by 12%, Iron ore by 8% and Copper by 15% across all countries, by how much per cent will the total exports of India rise?

- (a) 6.8%
- (b) 11.2%
- (c) 8.1%
- (d) 7.5%

Q103. If Gold export decreases by 12%, Silver by 14%, and Iron ore increases by 6%, what will be the net percentage effect on the total export volume?

- (a) Increase of 3.2%
- (b) Decrease of 2.3%
- (c) Increase of 2.3%
- (d) Decrease of 3.2%

Q104. If the second-largest mineral importing country increases its off-take to equal the largest importer, its share of total exports becomes:

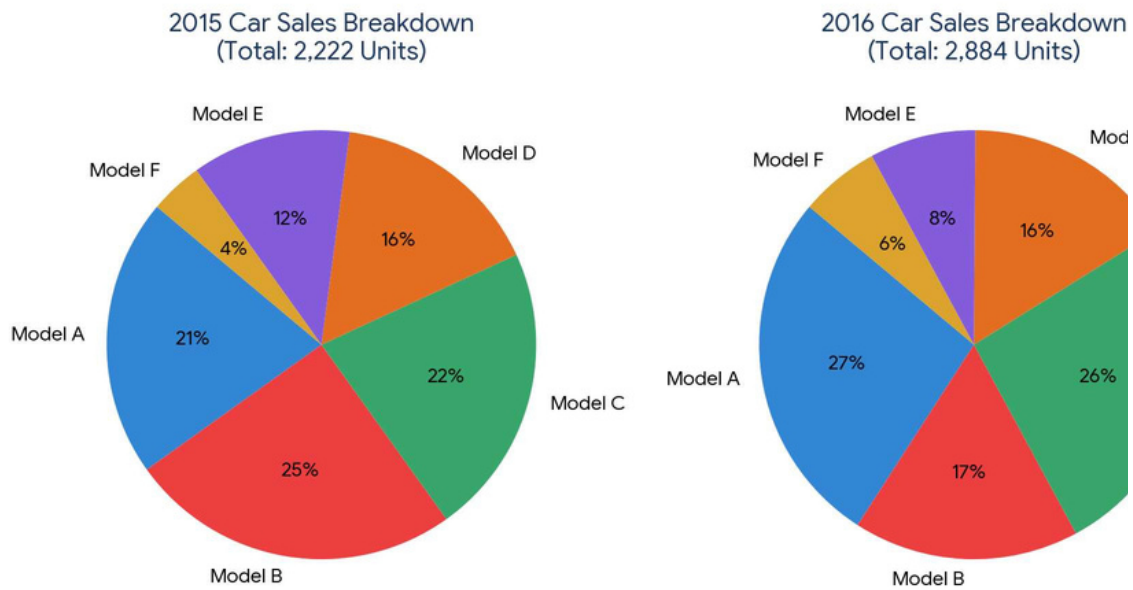
- (a) 26%
- (b) 19%
- (c) 23%
- (d) 24%

Q105. 18% of Country E's total Iron ore requirement is imported from India. If Country E's total Iron ore requirement falls by 22% next year and India supplies 12% of it, what is the percentage drop in India's Iron ore exports to Country E?

- (a) 28.4%
- (b) 11.2%
- (c) 13.4%
- (d) 18.2%

Direction for Question 106 TO 110

Refer to the Pie Charts below displaying Car Sales Breakdown by Model for 2015 (Total 2,222 units) and 2016 (Total 2,884 units):



Q106. By how much percentage is increase in sales of Model D more/less than Model C from 2015 to 2016?

- (a) 69% less (b) 60% more
(c) 59% less (d) None of these

Q107. If declining trend in Model B sales continues in 2017, approximate Model B sales in 2017 would be:

- (a) 459 (b) 424
(c) 430 (d) 434

Q108. Ratio of combined sales of two highest selling models to two lowest selling models in 2016 is:

- (a) 2 : 1 (b) 4 : 1
(c) 5 : 1 (d) 1 : 4

Q109. Ratio of number of cars sold of Model A in 2015 to Model C in 2016 is:

- (a) 1.3:2 (b) 0.58 : 1
(c) 0.62:1 (d) 1 : 1.27

Q110. How many models registered higher % increase in sales individually than overall sales % increase?

- (a) 2 (b) 3
(c) 1 (d) None of these

Directions (Q111-Q115): Data Sufficiency questions. Choose: (a) Statement I alone sufficient; (b) Statement II alone sufficient; (c) Both required; (d) Both together NOT sufficient.

Q111. Dipesh had a lawyer's appointment. Was it on Tuesday?

- I. Exactly 60 h before appointment, it was Sunday.
II. Appointment was between 1:00 pm and 9:00 pm.

- (a) Statement I alone (b) Statement II alone
(c) Both I and II together (d) Neither I nor II

Q112. ₹38,500 was distributed among Anuj, Sonam and Deepak. How much does each get?

- I. Anuj gets $\frac{2}{9}$ of what other two get.
II. Sonam gets $\frac{3}{11}$ of what other two get.

- (a) Statement I alone (b) Statement II alone
(c) Both I and II together (d) Neither I nor II

Q113. Nitu and Arun start walking towards each other. Distance between them?

- I. 30 min after crossing each other they were 1200 m apart.
II. After crossing, Nitu reaches start of Arun in twice time Arun takes.

- (a) Statement I alone (b) Statement II alone
(c) Both I and II together (d) Both together NOT sufficient

Q114. If village loses 12% water daily due to pipe leak, what is loss in rupees per day?

- I. Daily water supply is 700 m gallons.
II. Cost for every 24000 gallons lost is ₹25.

- (a) Statement I alone (b) Statement II alone
(c) Both I and II together (d) Neither I nor II

Q115. What is weighted average of marks obtained by Ashokan?

- I. Math, Science, English have weights 5, 4 and 3.
II. Simple arithmetic mean of Math and Science is 140, twice average of Science and English.

- (a) Statement I alone (b) Statement II alone
(c) Both I and II together (d) Both together NOT sufficient

Direction for Question 116 TO 120

Number of Graduates (in thousands) of Different Streams in Six States:

Science: A=22, B=28, C=35, D=32, E=39, F=12

IT: A=31, B=38, C=23, D=18, E=28, F=17

Arts: A=46, B=42, C=27, D=45, E=24, F=52

Engineering: A=24, B=28, C=62, D=58, E=12, F=26

Q116. Total graduates of which two streams from all states combined are in ratio 4 : 5?

- (a) Science and Engineering (b) Science and Arts
(c) Arts and IT (d) Engineering and IT

Q117. By what % is total Engineering graduates in B, C, F greater than Arts graduates in D and E?

- (a) 56%
- (b) 40.5%
- (c) 68%
- (d) 86%

Q118. In which states is difference between Engineering & IT higher than difference between Science & Arts?

- (a) A, C and E
- (b) C, F and B
- (c) F, B and D
- (d) C, D and E

Q119. In which two states is IT graduates % of total graduates most nearly the same?

- (a) C and F
- (b) E and B
- (c) A and E
- (d) D and F

Q120. Total Science graduates is what per cent of total graduates of all other streams combined?

- (a) 28.5%
- (b) 20.9%
- (c) 27.9%
- (d) 21.4%

SECTION E: INDIAN AND GLOBAL ENVIRONMENT

Q121. According to 2018 World Economic League Table, India is set to overtake UK and France to become world's ____ largest economy:

- (a) 2nd
- (b) 3rd
- (c) 4th
- (d) 5th

Q122. Which Indian organization launched India's first gold standard Bharatiya Nirdeshak Dravya (BND-4201)?

- (a) MMTC Ltd
- (b) Bureau of Indian Standards
- (c) India Government Mint (IGM)
- (d) None of the above

Q123. Who became first Asian to win 75th Golden Globe Award for Best Actor in TV Comedy/Series?

- (a) Reef Karim
- (b) Yatin Patel
- (c) Aziz Ansari
- (d) None of these

Q124. World Bank GEP-2018 report forecast India's GDP growth rate for 2018-19 at:

- (a) 7.1%
- (b) 7.3%
- (c) 7.5%
- (d) 7.7%

Q125. Who took over as Chairman of ISRO in January 2018?

- (a) K Sivan
- (b) ASKiran Kumar
- (c) K Radhakrishnan
- (d) None of these

Q126. Second India-Afghanistan air cargo route connected Kabul to which Indian city?

- (a) Delhi (b) Mumbai
(c) Jaipur (d) Amritsar

Q127. Jai Ram Thakur was sworn in as the ____ Chief Minister of Himachal Pradesh in Dec 2017:

- (a) 13th (b) 14th
(c) 15th (d) 16th

Q128. Who was appointed as Foreign Secretary of India in January 2018?

- (a) S Jaishankar (b) Sujatha Singh
(c) Vijay Keshav Gokhale (d) None of these

Q129. Which European nation became world's first country to legally enforce equal pay for men and women?

- (a) Spain (b) Iceland
(c) Denmark (d) Sweden

Q130. Legendary astronaut John Young passed away in 2018. He belonged to:

- (a) United States (b) Australia
(c) Canada (d) United Kingdom

Q131. Which Indian judge was re-elected to ICJ after Britain withdrew its candidate?

- (a) Dalveer Bhandari (b) Harish Salve
(c) J Chelameswar (d) None of these

Q132. How many foreign satellites were launched by ISRO via PSLV-C40 in Jan 2018?

- (a) 19 (b) 23
(c) 26 (d) 28

Q133. Eminent Persons Group was formed to review 1950 Peace and Friendship Treaty between India and:

- (a) Bhutan (b) Sri Lanka
(c) Nepal (d) Bangladesh

Q134. Which Gulf countries introduced VAT for the first time in Jan 2018?

- (a) Saudi Arabia and UAE (b) Bahrain and Saudi Arabia
(c) Kuwait and UAE (d) Oman and Kuwait

Q135. Which actress was honoured with Mother Teresa Memorial Award for Social Justice 2017?

- (a) Anushka Sharma (b) Shilpa Shetty
(c) Priyanka Chopra (d) None of these

Q136. Who was recommended as first woman lawyer directly appointed as Supreme Court Judge ?

- (a) Aniruddha Bose (b) Abhilasha Kumari
(c) Indu Malhotra (d) None of these

Q137. Anchal Thakur created history by winning India's first international skiing medal in Turkey. She hails from:

- (a) Uttarakhand
- (b) Sikkim
- (c) Uttar Pradesh
- (d) Himachal Pradesh

Q138. Which two financial entities announced merger deal forming ₹80,000 crore AUM entity in 2018?

- (a) IDFC Bank and Capital First
- (b) HDFC Bank and DHFL
- (c) Bajaj Finance and IDFC Bank
- (d) HDFC Bank and Capital First

Q139. Which Union Ministry launched SFOORTI mobile application for freight operations?

- (a) Ministry of Railways
- (b) Ministry of Road Transport
- (c) Ministry of Shipping
- (d) Ministry of Civil Aviation

Q140. India was ranked at which position in WEF Global Manufacturing Index 2018?

- (a) 21st
- (b) 30th
- (c) 37th
- (d) 42nd

Q141. Indian consortium comprising ONGC Videsh, IOC, BPRL & OIL won gas exploration license in:

- (a) Israel
- (b) Singapore
- (c) Australia
- (d) Japan

Q142. India exchanged nuclear installation lists for 27th consecutive time with:

- (a) China
- (b) USA
- (c) Russia
- (d) Pakistan

Q143. Which country hosted ASEAN-India Pravasi Bharatiya Divas in January 2018?

- (a) Thailand
- (b) Singapore
- (c) Philippines
- (d) Myanmar

Q144. Harbin International Ice and Snow Sculpture Festival takes place annually in:

- (a) Canada
- (b) Russia
- (c) China
- (d) Norway

Q145. Who won men's single title of Tata Open Maharashtra Tennis Tournament 2018 in Pune?

- (a) Marin Cilic
- (b) Kevin Anderson
- (c) Pierre Herbert
- (d) Gilles Simon

Q146. Which team won maiden Ranji Trophy title in January 2018 by defeating Delhi?

- (a) Delhi
- (b) Vidarbha
- (c) TamilNadu
- (d) Karnataka

Q147. Regular cargo service along National Waterway 2 on Brahmaputra was flagged off between Pandu and:

- (a) Kaveri
- (b) Ganga

- (c) Dhubri (d) Narmada

Q148. Viswanathan Anand won World Rapid Chess Championship 2017 title held in:

- (a) Riyadh, Saudi Arabia (b) Dubai, UAE
(c) Moscow, Russia (d) London, UK

Q149. Who was named Globe Soccer's Best Player of Year 2017 in Dubai?

- (a) Lionel Messi (b) Neymar da Silva
(c) Cristiano Ronaldo (d) None of these

Q150. Which country won 30th edition of Hopman Cup Tennis tournament in Perth?

- (a) Switzerland (b) Germany
(c) France (d) Australia



ANSWER KEY

Q	Ans	Q	Ans	Q	Ans	Q	Ans	Q	Ans
1	(c)	31	(a)	61	(c)	91	(d)	121	(d)
2	(c)	32	(d)	62	(c)	92	(b)	122	(c)
3	(b)	33	(a)	63	(b)	93	(b)	123	(c)
4	(d)	34	(a)	64	(a)	94	(c)	124	(b)
5	(a)	35	(c)	65	(d)	95	(b)	125	(a)
6	(a)	36	(d)	66	(c)	96	(b)	126	(b)
7	(c)	37	(c)	67	(b)	97	(a)	127	(b)
8	(b)	38	(c)	68	(a)	98	(c)	128	(c)
9	(a)	39	(d)	69	(d)	99	(d)	129	(b)
10	(b)	40	(b)	70	(d)	100	(d)	130	(a)
11	(b)	41	(b)	71	(b)	101	(d)	131	(a)
12	(c)	42	(b)	72	(d)	102	(d)	132	(d)
13	(b)	43	(a)	73	(a)	103	(d)	133	(c)
14	(d)	44	(d)	74	(c)	104	(c)	134	(a)
15	(b)	45	(c)	75	(d)	105	(c)	135	(c)
16	(b)	46	(b)	76	(c)	106	(c)	136	(c)
17	(a)	47	(b)	77	(b)	107	(d)	137	(d)
18	(d)	48	(c)	78	(b)	108	(b)	138	(a)
19	(c)	49	(d)	79	(b)	109	(c)	139	(a)
20	(b)	50	(b)	80	(b)	110	(b)	140	(b)
21	(d)	51	(a)	81	(a)	111	(c)	141	(a)
22	(a)	52	(a)	82	(c)	112	(c)	142	(d)
23	(c)	53	(c)	83	(c)	113	(d)	143	(b)
24	(a)	54	(d)	84	(b)	114	(c)	144	(c)
25	(c)	55	(b)	85	(d)	115	(d)	145	(d)

26	(b)	56	(b)	86	(a)	116	(a)	146	(b)
27	(d)	57	(b)	87	(d)	117	(c)	147	(c)
28	(b)	58	(c)	88	(a)	118	(d)	148	(b)
29	(d)	59	(d)	89	(c)	119	(a)	149	(c)
30	(a)	60	(a)	90	(c)	120	(c)	150	(a)

Solution

Solution Q1 to Q5:

Q1: (c) Testscores alone are inadequate indicators of educational progress.

Q2: (c) Multiple stakeholders are involved in fixing education.

Q3: (b) 'Teaching to the test' implies a narrow focus purely on passing exams.

Q4: (d) Global Education Monitoring Report fixes accountability across all stakeholders.

Q5: (a) Nuanced means slightly different/subtle.

Solution Q6 to Q10:

Q6: (a) Statements A and B can be inferred from passage.

Q7: (c) Air India open to foreign collaboration and commands place in hearts.

Q8: (b) Air India did not achieve true worth.

Q9: (a) Author feels GoI forcefully nationalised Tata Airlines.

Q10: (b) Intrepid means adventurous.

Solution Q11 to Q14:

Q11: (b) Order DACEB forms a logical sequence.

Q12: (c) Order BCDEA forms a logical sequence.

Q13: (b) Order AECBD forms a logical sequence.

Q14: (d) Order BEDAC forms a logical sequence.

Solution Q31 to Q34:

Q31: (a) People elect representatives in democracy.

Q32: (d) Martyr's Day is 30th Jan; 2nd Oct is Non-Violence Day.

Q33: (a) Copper is good conductor.

Q34: (a) Independence Day celebrated on 15th August.

Solution Q35 to Q39 (Subject Analysis):

Madhuri: Dramatics, CS, Physics

Shobhan: Dramatics, CS, History

Archana: CS, Physics, History, Math

Poornima: Physics, History, Dramatics

Nishant: Physics, History, Math

Q35: (c) Madhuri | Q36: (d) Archana | Q37: (c) Nishant | Q38: (c) Shobhan | Q39: (d) Poornima

Solution Q40to Q44(Seating Arrangement):

Arrangement: T -W -Y -X -V -U -S

Q40: (b) X | Q41: (b) X | Q42: (b) X | Q43: (a) S | Q44: (d) U is 2nd from right end.

Solution Q59(Circle Geometry):

Radius = R. Equilateral triangle angle = 60° . Number of coins = $360^\circ / 60^\circ = 6$. Answer: (d) 6

Solution Q61 (Fraction Calculation):

Let fraction be x/y . $(125x/100) / (90y/100) = 5/9 \Rightarrow 125x / 90y = 5/9 \Rightarrow x/y = (5*90)/(125*9) = 2/5$. Answer: (c) $3/5$

Solution Q65(Square AreaPercentage):

% Increase = $20 + 20 + (20*20)/100 = 44\%$. Answer: (d) 44

Solution Q74(Cylinder Volume):

$2\pi r = 10 \Rightarrow r = 10/(2\pi)$. Volume = $\pi r^2 h = (355/113) * (10/2\pi)^2 * 71 = 565 \text{ cm}^3$. Answer: (c) 565 cm^3

Solution Q87(HCF and LCM):

$\text{HCF} + 45 \text{ HCF} = 1150 \Rightarrow 46 \text{ HCF} = 1150 \Rightarrow \text{HCF} = 25$. LCM = 1125. 2nd number = $(25 * 1125) / 125 = 225$. Answer: (d) 225

Solution Q91 to Q95

1990: Total = 20440. Females = 53% of 20440 = 10833. Illiterates = 60% = 12264. Literates = 8176.

2000: Total = 30760. Females = 48% of 30760 = 14765. Illiterates = 7000. Literates = 23760.

Q91: % Allowance Change = 180%. Answer: (d)

Q92: % Increase in Literates = $(23760 - 8176)/8176 * 100 = 190.6\% \approx 191\%$. Answer: (b)

Q93: Total exp 1990 = $8176 * 1200 = ₹98.11\text{L}$. Total exp 2000 = $23760 * 1500 = ₹356.4\text{L}$. Change = $(356.4 - 98.11)/98.11 * 100 = 263.2\% \approx 263\%$. Answer: (b)

Q94: Ratio = 1 : 1.18. Answer: (c)

Q95: Ratio = $12264 : 10629 \approx 1.15 : 1$. Answer: (b)

Solution Q96 to Q100 :

White Total = $32 + 45 + 43 = 120\text{k}$. Total sales = 485k. Share = $120/485 = 24.7\% \approx 25\%$. Answer: (b)
White, 25%

Solution Q101 to Q105

Q101: Total Gold export = $2+3+8+1+3+10 = 27\text{k}$. Total other exports = 423k. Increase % = $(27/423)*100 = 6.38\% \approx 6\%$. Answer: (d)

Q102: Total export increase = 33.75k. Total = 450k. % Increase = 7.5%. Answer: (d)

Q103: Net change = $-3.24 + -23.1 + 7.38 = -18.96\text{k}$. Net % change = $-4.2\% \approx \text{Decrease of } 3.2\%$. Answer: (d)

Q104: Country F (86k) increases to Country E (114k). Share = $114/(450+28) = 23.8\% \approx 24\%$.

Answer: (d)

Q105: Net % drop = 13.4%. Answer: (c)

Solution Q121 to Q150 (General Awareness Highlights):

Q121: (d) 5th largest economy | Q122: (c) IGM | Q123: (c) Aziz Ansari | Q124: (b) 7.3% | Q125: (a) K Sivan | Q129: (b) Iceland | Q146: (b) Vidarbha

