SSC COMBINED GRADUATE LEVEL TIER-1 EXAM

FIRST SITTING

Exam Held On : 16-05-2010

PART-A GENERAL INTELLIGENCE & REASONING

Directions (1-8) : In each of the following questions, select the related letters/word/number from the given alternatives.

- ACEG : SUWY : : BDFH : ?!
 - (1) TVZX
- (2) RTZV
- (3) TVXZ
- (4) RTVZ

- 3. 5:27::9:?
 - (1) 83
- (2) 81
- (3) 36
- (4) 18
- 4. 6:11::11:?
 - (1) 6
- (2) 17
- (3) 20
- (4) 30
- 5. ABE:8::KLO:? (1) 37
 - (2) 39
 - (3) 38
- (4) 36
- 6. Sty : Pig : : Byre : ?
 - (1) Eagle
- (2) Cow
- (3) Tiger
- (4) Hen
- Patrol : Security :: Insurance : ?
 - (1) Money
- (2) Policy
- (3) Savings
- (4) Risk
- 8. ADBC : EHFG :: ILJK : ? MOPN
 - (2) MPNO
 - (3) ORPQ
- (4) MPON

Directions (9-14): in each of the following questions, select the one which is different from the other three responses.

- 9. (1) 25. 36
- (2) 144, 169
- (3) 100, 121
- (4) 9, 64
- 10. (1) Heat
- (2) Light
- (3) Bulb
- (4) Electricity
- 11. (1) Wave

- (2) Current (4) Storm
- (3) Tide 12. (1) X
- (2) Y
- (3) H
- (4) D

- 13. (1) ZKXJ
- (2) CMAL (4) FRTK
- (3) TGRF 14. (1) ABJNM
- (2) QRTUZ
- (3) IXYOQ
- (4) WFGOP
- 15. Arrange the following words according to the dictionary?
 - 1. Inventory
- 2. Involuntary
- 3. Invisible
- 4. Invariable
- 5. Investigate
- (1) 4, 2, 5, 3, 1 (2) 4, 5, 1, 3, 2
- (3) 2, 5, 4, 1, 3 (4) 4, 1, 5, 3 2
- 16. Find the next two letters in the given series.
 - BCEHL??
 - (1) XY
- (2) MN
- (3) QW
- (4) OP
- 17. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete
- n bb_abbn
- (1) abnabb
- (2) bnbban
- (3) bnbbna
- (4) babban
- 18. Find out a set of numbers amongst the four sets of numbers given in the alternatives, which is the most similar to the numbers given in the question.
 - Given : (6, 30, 90)
 - (1) 6, 42, 86
- (2) 7, 42, 218
- (3) 6, 24, 70
- (4) 8, 48, 192
- 19. Which one number is wrong in the given series?
 - 126, 98, 70. 41, 14
 - (1)98
- (2) 70
- (3) 126
- (4) 41
- 20. Arrange the following in the meaningful/logical order:
 - 1. Exhaust
- 2. Night
- 3. Day
- 4. Sleep
- 5. Work
- (1) 1, 3, 5, 2, 4 (2) 3, 5, 1, 4, 2
- (3) 3, 5, 1, 2, 4 (4) 3, 5, 2, 1, 4

Directions (21-24) : In each of the following questions, a series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.

- 21. 3, 4, 7, 11, 18, 29. <u>?</u>
 - (1)31
- (2)39
- (3)43
- (4)47
- 22. AGMSY, CIOUA, EKQWC. __?__. IOUAG, KQWCI
 - (1) GMSYE
- (2) FMSYE
- (4) FMYES (3) GNSYD
- 23. 975, 864, 753, 642, ___?___ (1) 431
 - (2) 314
 - (3) 531
- (4) 532
- 24. 8, 24, 12, _?_, 18, 54
 - (2) 36
 - (1) 28 (3) 46
- (4) 38
- 25. Ashok's mother was 3 times as old as Ashok 5 years ago. After 5 years she will be twice as old as Ashok. How old is Ashok today?
 - (1) 10 years
- (2) 15 years
- (3) 20 years
- (4) 25 years
- 26. M is the son of P. Q is the granddaughter of O who is the husband of P. How is M related to O?
 - (1) Son
- (2) Daughter
- (3) Mother
- (4) Father
- 27. In a row of boys, Srinath is 7th from the left and Venkat is 12th from the right. If they interchange their positions, Srinath becomes 22nd from the left. How many boys are there in the row?
 - (1) 19
- (2) 31
- (3) 33(4).34
- 28. From the given alternative words. select the word which cannot be formed using the letters of the
 - given word : Given: IMPASSIONABLE

 - (1) IMPASSABLE (2) IMPOSSIBLE
 - (3) IMPASSIVE
- (4) IMPASSION 29. Only one meaningful word can be formed by rearranging the letter of the given jumbled word. Find

out that word. Given: MUSPOPAPOTIH

- (1) METAMORPHIC
- (2) PHILANTHROPIST
- (3) HIPPOCAMPUS
- (4) HIPPOPOTAMUS

- 30. Which number is wrong in the 1 35. If given series?
 - i, 9, 25, 50, 81
 - (1)-1
- $(2) \cdot 25$
- (3) 50
- (4) 81
- 31. A bus leaves Delhi with trail the number of women as men. At Meerut, ten men get down and five women get in. Now there are equal number of men and women. How many passengers boarded the bus initially at Delhi?
 - (1) 36
- (2) 45
- (3) 15
- (4) 30
- 32. If the day before yesterday was Sunday, what day will it be three days after the day after tomorrow?
 - (1) Sunday
- (2) Monday
- (3) Wednesday (4) Saturday

Directions (33) : In the following question, one statement is given followed by two assumptions I and IJ. You have to consider the statement to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given assumptions, if any, follow from the given statement

33. Statement : Politicians become rich by the votes of the people.

Assumptions:

- People vote to make politicians
- Politicians become rich by their virtue.
- (1) Only I is implicit
- (2) Only II is implicit
- (3) Both I and II are implicit
- (4) Both I and II are not implicit

Directions (34): In the following question, two statements P and Q are given followed by four conclusions I. II. III and IV. You have to consider the two statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follow the given statements.

34. Statements:

- P. All men are women.
- Q. All women are crazy.

Conclusions:

- All men are crazy.
- All the crazy are men.
- III. Some of the crazy are men.
- IV. Some of the crazy are women.
- None of the conclusions follows
- (2) All the conclusions follow:
- (3) Only I, III and IV follow
- (4) Only II and III follow

- If HOSPITAL is written as 32574618 in a certain code, how. would POSTAL be written in that code?
 - (1) 752618 (3) 7251*8*8
- 36. Find the missing number from the given responses.
 - 173 (24) 526
 - 431 (18) 325
 - 253 (?) 471
 - (1) 22
- (2).42
- (3) 30
- (4) 06
- 37. After interchanging + and +, 12 and 18, which one of the following equations becomes correct?.
 - (1) (90 × 18) + 18 = 60
 - (2) (18 + 6) + 12 = 2
 - (3) $(72 + 18) \times 18 = 72$
 - $(4) (12 + 6) \times 18 = 36$
- 38. If SPARK is coded as TOBSL, what will be the code for FLAME?
 - (1) GMBNF
- (2) GNBNF
- (3) GMCND
- (4) GMBMF
- 39. Find out the correct answer for the unsolved equation on the basis of the given equations.
 - If 6 + 5 = 91 10000
 - $8 \cdot 7 = 169$
 - 10 7 = 211
 - then $11 \cdot 10 = ?$
 - (1) 331
- (2) 993
- (3) 678
- (4) 845
- 40. A child is looking for his father. He went 90 metres in the east before turning to his right. He went 20 metres before turning to his right again to look for his father at his uncle's place 30 metres from this point. His father was not there. From here he went 160 metres to his north before meeting his father in a street. How far did the son meet his father from the starting point?
 - (1) 90.m
- (2) 100 m
- (3) 260 m

as;

- (4) 140 m
- In the following question, Δ stands for any of the mathematical signs at different places, which are given as choices under each question. Select the choice with the correct sequence of signs which when substituted makes the question as a correct equation.
 - 24 4 4 4 5 4 4
- (2) = x +
- (3) + x = -0.015c(4) = + x

What is the number missing from the third target?



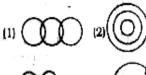
- (2) 48
- (3) 51
- $(4)^{\circ}54$
- 43. In a classroom, there are 5 rows. and 5 children A. B. C. D and E are seated one behind the other In 5 separate rows as follows:
 - A is sitting behind C, but in front

C is sitting behind E. D is sitting in front of E.

The order in which they are sitting from the first row to the last

- (1) DECAB
- (2) BACED
- (3) ACBDE
- (4) ABEDC
- 44. Little wooden cubes each with a side of one inch are put together to form a solid cube with a side of three inches. This big cube is then painted red all over on the outside. When the big cube is broken up into the original little ones, how many cubes will have paint on two sides?
 - (1) 4
- (2) 8
- (3) 12
- (4) 0
- 45. K is a place which is located 2 km away in the north-west direction from the capital P. R is another place that is located 2 km away in the south-west direction from K. M is another place and that is located 2 km away in the north-west direction from R. T is yet another place that is located 2 km away in the south-west direction from M. In which direction is T located in relation to P?
 - (1) South-west
- (2) North-west
- (3) West
- (4) North
- 46. Find out which of the diagrams given in the alternatives correctly represents the relationship stated in the question.

Sharks, Whales, Turtles.





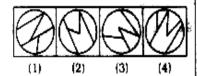


Directions (47): In this question. among the four answer figures, which figure can be formed from the cutpieces given below in the question fig-

47. Question Figure



Answer Figure



48. How many triangles are there in the following figure?



 $(11 \ 11)$

(2) 13

(3)9

(4) 15

49. From the given answer figures. select the one in which the question figure is hidden/embedded in the same direction.

Question Figure



Answer Figures

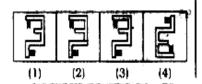


50. Which answer figure is the exact mirror image of the given question figure when the mirror is held from the right at PQ?

Question figure



Answer figures



PART-B GENERAL AWARENESS

- 51. A concave lens always forms an image which is
 - real and erect
 - (2) virtual and erect
 - (3) real and inverted
 - (4) virtual and inverted
- 52. A vitamin requires cobalt for its activity. The vitamin is
 - (I) Vitamin B₁₂ (2) Vitamin D
 - (3) Vitamin B₂ (4) Vitamin A
- 53. One of the constituents of tear gas
 - (1) Ethane
- (2) Ethanol
- (3) Ether
- (4) Chloroplerin
- 54. The modulus of rigidity is the ra-
 - longitudinal stress to longitudinal strain
 - (2) Volume stress to volume strain
 - (3) shearing stress to shearing strain
 - (4) tensile stress to tensile strain :
- 55. The propagation of sound waves in a gas involves
 - adiabatic compression and rar-
 - (2) isothermal compression and rarefaction
 - (3) isochoric compression and rarefaction 1
 - (4) isobaric compression and rarefaction
- 56. An atomic clock is based on transitione in
 - (1) Sodium
- (2) Caeshim
- (3) Magnesturn (4) Atluminium
- 57. Plasma membrane in eukaryotic cells is made up of
 - (1) Phospholipid
 - (2) Lipoprotein
 - (3) Phospholipo-protein
 - (4) Phospho-protein
- 58. Which one of the following is also called the 'power plants' of the cell?
 - (1) Golgi body
 - (2) Mitochondrion
 - (3) Ribbeome
 - (4) Lysosome
- 50. What is the chemical name of vinegar ?
 - (1) Citric acid (2) Acetic acid
 - (3) Pyruvic acid (4) Malic acid

- 60. Which of the following is not a property of heavy water?
 - (1) Boiling point of heavy water is: lower than that or ordinary water
 - (2) Density of heavy water is higher than that of ordinary
 - (3) Freezing point of heavy water is higher than that of ordinary water
 - (4) It produces corrosion
- 61. In which of the following processes: is energy released?
 - (1) Respiration
 - (2) Photosynthesis
 - (3) Ingestion
 - (4) Absorption
- 62. Animals living in the three trunks are known as
 - (1) Arboreal
- (2) Volant
- (3) Amphibious (4) Aquatic
- 63. Arrange the following to chronological order :
 - 1. Tughlags
- Lodis 4. Ilbari Turks
- Saiyids
- Khiljis
- (1) 1, 2, 3, 4, 5 (2) 5, 4, 3, 2, 1 (3) 2, 4, 5, 3, 1, (4) 4, 5, 1, 3, 2,
- 64. The book titled The Indian War of Independence' was written by
 - Krishna Verma
 - (2) Madame Cama
 - (3) B.G. Tilak
 - (4) V.D. Savarkar
- **65.** Who was the founder of the 'Ser' vants of India Society'?
 - G.K. Gokhale
 - (2) M.G. Ranade
 - (3) B.G. Tilak
 - (4) Bibin Chandra Pal
- 66. The term 'Caste' was derived from
 - (1) Portuguese
- (2) Dutch
 - (3) German
- (4) English
- 67. The term "Greater India" denotes
 - (1) Political unity
 - (2) Cultural unity
 - (3) Religious unity
 - (4) Social unity
- 68. Formalised system of trading agreements with groups of countries is known as
 - (1) Trading blocks
 - (2) Trade ventures
 - (3) Trade partners
 - (4) Trade organisations

- 69. Mahatma Gandhi was profoundly influenced by the writings of
 - (1) Bernard Shaw
 - (2) Karl Marx
 - (3) Lenin
 - (4) Leo Tolstov
- Seismic sea waves which approach the coasts at greater force are known as
 - (1) Tides
- (2) Tsunami
- (3) Current
- (4) Cyclone
- 71. Depression formed due to deflating action of winds are called
 - (1) Playas
- (2) Yardang
- (3) Ventifacts
- (4) Sand dunes
- The land of maximum biodiversity is
 - (1) Tropical
- (2) Temperate
- (3) Monsoonal
- (4) Equatorial
- 73. If input frequency of a full wave rectifier be n, then output frequency would be
 - (1) $\frac{n}{2}$
- (2) n
- (4) 2n
- 74. Heat transfer horizontally within the atmosphere is called
 - (1) Conduction
 - (2) Convection
 - (3) Absorption
 - (4) Advection
- 75. Indian Standard Time relates to
 - (1) 75.5° E longitude
 - (2) 82.5° E longitude
 - (3) 90.5° E longitude
 - (4) 0° longitude
- 76. Who is rightly called the "Father of Local Self Government" in India?
 - (1) Lord Mayo
- (2) Lord Ripon
- (3) Lord Curzon (4) Lord Clive
- 77. The Directive Principles of State Policy was adopted from the
 - (1) British Constitution
 - (2) Swiss Constitution
 - (3) U.S. Constitution
 - (4) Irish Constitution
- 78. Which is the second nearest star to the Earth after the Sun?
 - Vega.
 - (2) Sirius
 - (3) Proxima Centauri
 - (4) Alpha Centauri

- 79. The two forms of democracy are
 - (1) Parliamentary and Presidential
 - (2) Direct and Indirect
 - (3) Monarchical and Republican
 - (4) Parliamentary and King
- 80. Which is an extra-Constitutional body?
 - (1) Language Commission
 - (2) Planning Commission
 - (3) Election Commission
 - (4) Finance Commission
- 81. The Prime Minister of India is
 - (1) Elected (3) Nominated
 - (2) Appointed (4) Selected
- 82. Which is not an All India Service?
 - (1) Indian Administration Service
 - (2) Indian Police Service
 - (3) Indian Foreign Service
 - (4) Indian Forest Service
- 83. The forest in Sunderban is called
 - (1) Scrub jungle
 - (2) Mangrove
 - (3) Deciduous forest
 - (4) Tundra
- 84. Noise is measured in
 - (1) Watt
- (2) **REM**
- (3) Centigrade
- (4) Decibel
- 85. Who among the following captured his third consecutive National Billiards title in the year 2009?
 - (1) Pankaj Advani
 - (2) Devendra Joshi
 - (3) Geet Sethi
 - (4) Dhruy Sitawala
- 86. The Messenger Satellite launched: by NASA is to study
 - (1) Mercury
- (2) Venus
- (3) Saturn
- (4) Jupiter
- 87. What was the name of the ship that sank near the Paradio Port in September, 2009 causing an oil spill?
 - (1) Red Rose
- (2) Black Rose
- (3) White Rose (4) Green Rose

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- 88. Who among the following has been honoured with the prestigious Dadasaheb Phalke Award for 2007?
 - (1) Yash Chopra
 - (2) Ustsad Amjad Ali Khan 🐇
 - (3) Manna Dey
 - (4) A. Nageshwara Rao
- 89. An Intelligent terminal
 - (1) has a microprocessor, but cannot be programmed by the user

- (2) can process small data processing jobs, with the use of a large CPU
- (3) interacts with the user in English
- (4) cannot take data from the user.
- Which one of the following is not a method of estimating National Income?
 - (1) Expenditure method
 - (2) Product method
 - (3) Matrix method
 - (4) Income method
- 91. The monetary policy is India is formulated by
 - (1) Central Government
 - (2) Industrial Financial Corporation of India
 - (3) Reserve Bank of India
 - (4) Industrial Development Bank of India
- 92. A short-term government security paper is called
 - (1) Share - (2) Debenture
 - (3) Mutual fund (4) Treasury bill
- 93. WTO basically promotes
 - (1) Financial support.
 - (2) Global peace
 - (3) Unilateral trade
 - (4) Multilateral trade
- 94. Under which market condition do firms have excess capacity?
 - (1) Perfect competition
 - (2) Monopolistic competition
 - (3) Duopoly
 - (4) Oligopoly
- modificant 95. Price theory is also known as
 - (1) Macro Economics
 - (2) Development Economics
 - (3) Public Economics
 - (4) Micro Economics
- 96. At present, India is following
- (1) Fixed exchange rate
 - (2) Floating exchange rate
 - (3) Pegged up exchange rate
- (4) Pegged down exchange rate Who among the following won the 'ICC Cricketer of the Year Award' for the year 2009?
 - (1) M.S. Dhoni
 - (2) Gautam Gambhir
 - (3) Mitchell Johnson
 - (4) Tillakaratne Dilshan
- 98. The bats can fly in the dark because
 - (1) they can see the objects in darkness

- (2) they have weak legs and are likely to be attacked by preda-
- (3) they generate flashes of light
- (4) they generate ultrasonic sound waves
- 99. What changes will happen to a bowl of ice and water kept at exactly zero degree Celatus ?
 - (1) All ice will melt
 - (2) All water will become ice
 - (3) No change will happen
 - (4) Only some ice will melt...
- 100. National Income is the
 - (1) Net National Product at market price
 - (2) Net National Product at factor
 - (3) Net Domestic Product at market price
 - (4) Net domestic Product at factor cost

PART-C NUMERICAL APTITUDE

- 101. The H.C.F. and L.C.M. of two numbers are 8 and 48 respectively. If one of the numbers is 24, then the other number is
 - (1)48
- (2) 36
- (3) 24
- (4) 16
- 102. The greatest number, which when subtracted from 5834, gives a number exactly divisible by each of 20, 28, 32 and 35, is
 - (1) 1120
- (2) 4714
- (3) 5200
- (4) 5600
- 103. The ninth term of the sequence 0, 3, 8, 15, 24, 35, is
 - (1)63
- (2)70
- (3) 80
- (4)99
- 0.125 + 0.027104. 0.25 - 0.15 + 0.09 is equal to
 - (1) 0.3
- (2) 0.5
- (3) 0.8
- (4) 0.9
- 105. The sum of the series
- (1 + 0.6 + 0.06 + 0.006 + 0.0006 +) is
 - (1) $1\frac{2}{3}$ (2) $1\frac{1}{3}$
 - (3) $2\frac{1}{3}$ (4) $2\frac{2}{3}$
- 106. $\sqrt{\frac{0.009 \times 0.036 \times 0.016 \times 0.08}{0.002 \times 0.0008 \times 0.0002}}$ is equal to

- (1) 34
- ' (3) 38
- (4) 39
- 107. A number, when divided by 114. leaves remainder 21. If the same number is divided by 19, then the remainder will be
 - (1) 1
- (2) 2 (4) 17
- (3) 7
- 106. The square root of 0.09 is
 - (1) 0.30
- (2) 0.03
- (3) 0.81
- (4) 0.081
- 109. The number 0.121212.... in the
 - form $\frac{p}{q}$ is equal to

- 110. If $\left(\frac{3}{5}\right)^3 \left(\frac{3}{5}\right)^{-6} = \left(\frac{3}{5}\right)^{2x-1}$, then x
 - (1) -2
- (2) 2
- (3) -1
- (4) 1 111. Two numbers are in the ratio 3 : 4. Their L.C.M. is 84. The
 - greater number is (2) 24 (1) 21
 - (3) 28

- (4).84
- 112. A drum of kerosene is 7

When 30 litres of kerosene is

- drawn from it, it remains 12 full.
- The capacity of the drum is
 - (1) 120 t
- (2) 135 !
- (3) 150 1
- (4) 180 (
- 113. By what least number should 675 be multiplied so as to obtain a perfect cube number?
 - (1) 3
- (2) 5
- (3) 24
- (4) 40
- 114. $\left(1\frac{1}{9}+11\frac{1}{2}+111\frac{1}{2}+1111\frac{1}{2}\right)$
 - is equal to
 - (1) 1236
- (3) 618
- (4) 617
- 115. 0.001 is equal to

- 116. $\frac{4.41\times0.10}{2.1\times1.6\times0.21}$ is simplified to
- (2) 0.1
- (3) 0.01
- (4) 10
- 117. If a and b are two odd positive integers, by which of the following integers is (a4 - b4) always divisible?
 - (1) 3
- (2) 6
- (3) 8
- (4) 12
- **118.** If a = 11 and b = 9, then the

value of
$$\left(\frac{a^2 + b^2 + ab}{a^3 - b^3}\right)$$
 is

- (4) 20
- 256 × 256 144 × 144 is equal to 119.
 - (1) 420
- (2) 400
- (3) 360
- (4)320
- 120. If a and b be positive integers such that $a^2 - b^2 = 19$, then the value of a is
 - (1) 19
- (2) 20
- (3)9
- (4) 10
- 121. If the ratio of cost price and sell ing price of an article be as 10 : 11, the percentage of profit
 - (1) 8
- (2) 10
- (3) 11
- (4) 15
- 122. A manufacturer marked an article at Rs. 50 and sold it allowing 20% discount. If his profit was 25%. then the cost price of the article was
 - (1) Rs. 40
- (2) Rs. 35
- (3) Rs. 32

(1) 45:56

(4) Rs. 30

(2) 45 : 51

- 123. A shopkeeper earns a profit of 12% on selling a book at 10% discount on the printed price. The ratio of the cost price and the printed price of the book is
- (3) 47 : 56(4) 47:51 124. By selling a bicycle for Rs. 2,850. a shopkeeper gains 14%. If the profit is reduced to 8%, then the selling price will be
 - (1) Rs. 2,600 (2) Rs. 2,700
 - (3) Rs. 2,800 (4) Rs. 3.000

- 125. By selling an article, a man makes a profit of 25% of its selling price. His profit per cent is
 - (1) 20
- (2) 25
- (3) $16\frac{2}{3}$
- (4) $33\frac{1}{2}$
- 126. If A's income is 50% less than that of B's, then B's income is what per cent more than that of A?
 - (1) 125
- (2) 100
- (3) 75
- (4) 50
- 127. 1.14 expressed as a per cent of 1.9 is
 - (11.6%)
- (2) 10%
- (3) 60%
- (4) 90%
- 128. Two natural numbers are in the ratio 3:5 and their product is 2160. The smaller of the numbers is
 - (1) 36
- (2) 24
- (3) 18
- (4) 12
- **129.** If 60% of A = $\frac{3}{4}$ of B, then A : B

 - (1) 9:20
- (2) 20:9
- (3) 4 : 5
- (4) 5 : 4
- 130. Two successive price increases of 10% and 10% of an article are equivalent to a single price increase of
 - (1) 19%
- (2) 20%
- (3) 21%
- (4) 22%
- 131. $\frac{\sqrt{3+x}+\sqrt{3-x}}{\sqrt{3+x}-\sqrt{3-x}} = 2$ then x is equal to
 - (1) $\frac{5}{12}$ (2) $\frac{12}{5}$
- 132. An equilateral triangle of side 6 cm has its corners cut off to form a regular hexagon. Area (in cm2) of this regular hexagon will be
 - 3√3

- (3) $6\sqrt{3}$ (4) $\frac{5\sqrt{3}}{3}$
- 133. The length (in metres) of the longest rod that can be put in a room of dimensions 10 m x 10 m x 5 m is
 - (1) $15\sqrt{3}$
- (2) 15
- (3) $10\sqrt{2}$
- (4) 5√3

- 134. If Rs. 1000 is divided between A and B in the ratio 3:2, then A will receive
 - (1) Rs. 400 (2) Rs. 500
 - (3) Ra. 600 (4) Rs. 800
- 135. What must be added to each term of the ratio 7:11, so as to make it equal to 3:4?
 - (1) 8, a la lata (2), 7,5 (3) 6,5
 - (4) 5
- 136. A sum of money at compound interest doubles itself in 15 years. It will become eight times of ita removed A mail self in
 - 45 years
- (2) 48 years
- (3) 54 years (4) 60 years
- 137. Buses start from a bus terminal with a speed of 20 km/hr at intervals of 10 minutes. What is the
- speed of a man coming from the opposite direction towards the bus terminal if he meets the buses at intervals of 8 minutes ?
 - (1) 3 km/hr
- (2) 4 km/hr
- (3) 5 km/hr
- (4) 7 km/hr
- 138. If the circumference of a circle is decreased by 50% then the percentage of decrease in its area is

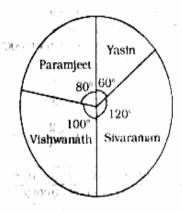
 - (1) 25 Stre-fri(2):50 usaus
 - (3) 60 (3)
- (4) 75 5
- 139. At what rate per cent per annum will a sum of Rs. 1,000 amount to Rs. 1, 102,50 in 2 years at compound interest?
 - (1) 5 (2) 5.5
- (4) 6.5
- 140. What annual payment will discharge a debt of Rs. 6,450 due in 4 years at 5% per annum simple interest?
 - (1) Rs., 1,400 (2) Rs., 1,500 11
 - (3) Ra. 1,550 (4) Rs. 1,600
- 141. The average of the first 100 positive integers is
 - (1) 100 (1)
- (2) 51 · ·
- (3) 50.5
- (4) 49.5
- 142. In a family, the average age of a father and a mother is 35 years. The average age of the father. mother and their only son is 27 years. What is the age of the son?
 - (1) 12 years (2) 11 years
 - (3) 10.5 years (4) 10 years
- 143. If 5 men or 7 women can carn Rs. 5,250 per day, how much would 7 men and 13 women earn 0001 per day ?
 - (1) Rs. 11,600 (2) Rs. 11,700
 - (3) Rs. 16,100 (4) Rs. 17,100

- 144. If A and B together can complete a piece of work in 15 days and B alone in 20 days, in how many days can A alone complete the work?
 - (1) 60
- (2) 45
- (3) 40
- (4) 30
- 145. By walking at $\frac{3}{4}$ of his usual
 - speed, a man reaches his office 20 minutes later than his usual time. The usual time taken by him to reach his office is
 - (1) 75 minutes (2) 60 minutes
 - (3) 40 minutes (4) 30 minutes
- 146. A can complete a piece of work in 18 days, B in 20 days and C in 30 days. B and C together start the work and are forced to leave after 2 days. The time taken by A alone to complete the remaining work is
 - 10 days
- (2) 12 days
- (3) 15 days
- (4) 16 days
- Atrain, 300m long, passed a man, walking along the line in the same direction at the rate of 3 km/hr in 33 seconds. The speed of the train is
 - (1) 30 km/h
 - (2) 32 km/h
 - (3) 32 8 km/h

(4)
$$35\frac{8}{11}$$
 km/h

Directions (148-150): The pie chart, given here, represents the number of valid votes obtained by four students who contested election for school leadership: The total number of valid votes polled was 720.

Observe the chart and answer the questions based on it.



148.	What was the minimum number	159. He went sea alone.	170. TRITE
	of votes obtained by any candi-	(1) in (2) to	(1) Commonplace
	date?	(3) into (4) on	(2) Clever
	(1) 100 (2) 110	160. The of our civilization from	(3) Brief
	(3) 120 (4) 130	an agricultural society to today's	
149.	What was the winner?	complex industrial world was ac-	Directions (171 - 175) : In the
	(1) Sivaraman (2) Paramjeet	companied by war.	following questions a part of the sen
	(3) Yasin (4) Vishwanath	(1) adjustment	tence is bold . Below are given alterna
150.	By how many votes did the win-	(2) migration	tives to the bold part at (1), (2) and (3)
	ner defeat his nearest rival?	. (3) route	which may improve the sentence.
	(1) 40 (2) 45	(4) metamorphosis	Choose the correct alternative. In case
	(3) 48 (4) 50	Directions (161 - 165) : In the	
	PART-D	following questions choose the word	1
	ENGLISH	opposite in meaning to the given word.	good teacher.
		161. FLORID	(1) cut out
<u>'</u>	COMPREHENSION	(1) Weak (2) Pale	(2) cut in
	Directions (151-155) : In the	(3) Monotonous (4) Ugly	(3) cut for
follov	ving questions, some of the sen-	162. VERITY	(4) No improvement
	es have errors and some have	(1) Sanctity (2) Reverence	172. Power got with money is the most
	Find out which part of a sen-	(3) Falsehood (4) Rarity	craved for today.
	has an error. The number of that	163. PERSPICUITY	(1) sought after
	is your answer. Your answer is (4) No error.	(1) Vagueness (2) Dullness	(O) unlaboral for
	He is a university professor (1)/	(3) Unfairness (4) Unwillingness	(3) welcomed for
101.	but of his three sons (2)/ neither	164. FERVENT	(4) No improvement
	has any merit. (3)/ No error (4)	(1) Inexcitable	173. The brown shirt wants washing.
152.	After knowing truth, (1)/ they	(2) Enduring	(1) has to wash
	took the right decision (2)/ in the	(3) Dispassionate	(2) is in need of a wash
	matter. (3)/ No error (4)	(4) Subdued	(3) requires a wash
153.	It is time you (1)/ decide on your	165. MEANDERING	(4) No improvement
	next (2)/ course of action. (3)/	(1) Sliding (2) Sloping	174. You are asked to copy this letter
	No error (4)	(3) Strained (4) Straight	mend by mond
154.	He who has suffered most (1)/	Directions (166 - 170) : In the following questions out of the four al-	1 40 14
	for the cause, (2)/let him speak. (3)/ No error (4)	ternatives, choose the one which best	
155	A cup of coffee (1)/ is an excel-	expresses the meaning of the given	
100.	lent complement (2)/ to smoked	word.	(4) No improvement
	salmon. (3)/ No error (4)	166. LUXURIANT	175. The weak man is a slave to his
	Directions (156 - 160) : Sen-	(1) Luxury-loving	sensuous pleasures.
tence	s are given with blanks to be filled	(2) Lovely	(1) sensory
	th an appropriate word(s). Four	(3) Rich	(2) sensual
	natives are suggested for each	(4) Abundant	(3) secondary
	tion. Choose the correct alterna-	167. CANTANKEROUS	(4) No improvement
	out of the four.	(1) Cancerous	Directions (176 - 180) : In the
100.	The hotel was not too expensive,	(2) Ferocious	following questions, out of the four al-
	(1) was it ? (2) wasn't it ?	(3) Quarrelsome	ternatives, choose the one which can
	• • • • • • • • • • • • • • • • • • • •	(4) Fissiparous	be substituted for the given words/
157	(3) is it? (4) isn't it?	168. ONUS	sentence.
197.	Like humans, zoo animals must have a dentist their teeth.	(I) Sadness	176. An underhand device resorted to in order to justify misconduct
	(1) fill (2) filled	(2) Happiness	(1) Subterfuge (2) Manoeuvre
	(3) filling (4) to be filled	(3) Responsibility	(3) Stratagem (4) Complicity
158	It was very kind of you to do the	(4) Criticism	177. Impossible to describe
	washing-up, but you it.	169. DERISION	(1) Miraculous
		d data transmittentaria	t (i) minacinida

7

(2) Ineffable

(4) Appalling

(3) Stupendous

(1) Humiliation

(3) Ridicule

(2) Embarrassment

(4) Condemnation

(1) didn't have to do

(3) mightn't have done

(4) mustn't have done

(2) hadn't to do

- 178. One who criticises popular beliefs which he thinks is mistaken or unwise
 - (1) Philistine (2) Iconoclast
 - (3) Imposter (4) Cannibal
- 179. Detaining and confining someone
 - (1) Interruption
 - (2) Interrogation
 - (3) Interment
 - (4) Internment
- 180. Science of the races of mankind
 - (1) Genealogy (2) Epistemology
 - (3) Ethnology (4) Sociology

Directions (181-185): In the following questions, groups of four words are given. In each group, one word is correctly spelt. Find the correctly spelt word.

- 181. (1) collaborate (2) comemorate
 - (3) colate
- (4) choclate
- 182. (1) circuiteous (2) clairvoyant
 - (3) chivelery (4) ca
 - (4) cavelcade
- 183. (1) severety (2) sovereignity
 - (3) superiorty (4) serenity
- 184. (1) cummulative
 - (2) comemmorative
 - (3) accummulative
 - (4) accommodative
- 185. (1) benidiction.
 - (2) besmerch
 - (3) beneficient
 - (4) benevolence

Directions (186 – 190): In the following questions, the 1st and the last sentences of the passage are numbered 1 and 6. The rest of the passage is split into four parts and named P. Q. R and S. These four parts are not given in their proper order. Read the sentence and find out which of the four combinations is correct. Then find the correct answer.

- Education in India had a glorious beginning.
 - P. But after the British rule, it faced many changes.
 - It went on for centuries with the same glory.
 - R. English as the medium of instruction had a very great response.
 - One of the changes was the introduction of English as the medium of instruction.
 - As the Britishers left we had a complexity of opinions regarding English

- (1) PQRS (2) QPSR
- (3) PQSR (4) SRPQ
- 187. 1. It is easy to criticize the people at the helm, for the slow progress in every field.
 - P. We are well aware that the intellectuals are leaving our country for better employment opportunities.
 - Then question remains unanswered because our country cannot show opportunities to the intellectuals.
 - R. Then, what about their obligation to the Motherland?
 - First, we should ask ourselves as to what is happening to the young intellectuals in India.
 - This situation of 'Brain-Drain' leads to a variety of problems.
 - (1) PSQR
- (2) RPSQ
- (3) PSRQ (4) SPRQ
- It is the responsibility of parents to teach the young moral values in life.
 - P. Many children take advantage of their parents' busy schedule.
 - Q. This results in children's ignorance of social values.
 - R. The reason behind it is that parents are quite busy nowa-
 - Nowadays parents spend very meagre time with children.
 - As such, the society is going away from the value system.
 - SRPQ
- (2) PQRS
- (3) SQRP
- (4) SPQR
- 189. 1. The man who does his duty without any selfish desire for fruit may be called a sanyasi as well as yogi.
 - P. The man who has achieved much evenness of temper will be serene, because his mere thoughts are changed with the strength of action.
 - Q. He would practise yoga. i.e., evenness of temper, and cannot but perform action.
 - R. The root of the matter is that one should not allow his mind to flit from object of desire to another and from that to a third.
 - But he who abstains from action altogether is only an idler.

- A yogi is one who is not at tached to his objects of sense or to action and whose mind has ceased to roam restlessly.
- (1) SRQP
- (2) RQPS (4) PRSQ
- (3) **QRS**P
- 190. 1. This was an important day for Al at took.
 - P. It was a cold day, but Alatook would be warm.
 - Q. For the first time he was go ing to hunt seals alone.
 - R. First he put on his fur-lined jacket.
 - S. Then he put on mittens and boots of deerskin to protect his hands and feet from the cold
 - Finally he picked up the gun he had cleaned so carefully the day before.
 - (1) PQRS (2) QPRS
 - (3) PRSQ (4) QRPS

Directions (191 - 195): In the following questions, a sentence has been given in Active Voice/Passive Voice, Out of the four alternatives suggested, select the one which best expresses the same sentence in Passive/Active Voice.

- 191. They have made a film based on this novel.
 - A film was based on this novel and made.
 - (2) A film have been made based on this novel.
 - (3) A film, based on this novel. has been made
 - (4) A film has been based and made on this novel.
- 192. The people couldn't move me to the hospital and the doctor operated on me at home.
 - I couldn't be moved to the hospital and was operated on at home by the doctor.
 - (2) I couldn't be moved to the hospital and I had to be operated on at home.
 - (3) I couldn't be moved to the hospital and I was operated at home by the doctor.
 - (4) I couldn't be moved to the hospital by the people and operated on at home.
- 193. Why did he deprive you of the membership?
 - (1) Why you were deprived of the membership?

- (2) Why were you deprived of his membership by him?
- (3) Why was he deprived of his membership
- (4) Why were you deprived of your membership by him?
- 194. The news has been brought to us by him.
 - (1) He brought us the news.
 - (2) He has brought us the news.
 - (3) He was brought the news to us.
- (4) We brought the news to him.
- 195. Not a word was spoken by the criminal in self-defence.
 - (1) The criminal spoke not a word in self-defence.
 - (2) The criminal in self-defence spoke no word.
 - (3) The criminal did not speak a word in self-defence.
 - (4) The criminal spoke in selfdefence not a word.

Directions (196-200): In the following passage, you have one brief passage with 5 questions following the passage. Read the passage carefully and choose the best answer to each question out of the four alternatives.

PASSAGE

Every profession or trade, every art and every science has its technical vocabulary, the function of which is partly to designate things or processes which have no names in ordinary English and partly to secure greater exactness in nomenclature. Such special dialects or jargons are necessary in technical discussion of any kind. Being universally understood by the devotees of the particular science or art, they have the precision of a mathematical formula. Besides, they save time, for it is much more economical to name a process than to describe it. Thousands of these technical terms are very properly included in every large dictionary, yet, as a whole, they are rather on the outskirts of the English language than actually within its borders.

Different occupations, however. differ widely in the character of their special vocabularies. In trades and handicrafts and other vocations like farming and fishing that have occupied great numbers of men from remote times, the technical vocabulary is very old. An average man now uses these in his own vocabulary. The special dialects of law, medicine, divinity and

philosophy have become familiar to cultivated persons.

- 196. Special words used in technical discussion
 - (1) may become part of common speech
 - (2) never last long
 - (3) should resemble mathematical formula
 - (4) should be confined to scientific fields
- 197. The writer of this article is
 - (1) a scientist
 - (2) a politician
 - (3) a linguist
 - (4) a businessman
- 198. This passage is primarily concerned with
 - (1) various occupations and professions
 - (2) technical terminology
 - (3) scientific undertakings
 - (4) a new language
- 199. It is true that
 - (1) various professions and occupations often interchange words
 - (2) there is always a non-technical word that may be substituted for the technical word
 - (3) the average man often uses in his own vocabulary what was once technical language not meant for him
 - (4) everyone is interested in scientific findings
- 200. In recent years, there has been a marked increase in the numper of technical terms in the nomenclature of

ANSWERS

- (1) Farming
- (2) Fishing
- (3) Sports

29. (4)

(4) Government

1. (3)	2. (1)	3. (1)	4. (3)
5. (3)	6. (2)	7. (4)	8. (2)
9. (4)	10. (3)	11. (3)	12. (2)
13. (4)	14. (3)	15. (4)	16. (3)
17. (2)	18. (4)	19. (4)	20. (3)
21. (4)	22. (1)	23. (3)	24 . (2)
25. (2)	26. (1)	27. (3)	28. (3)

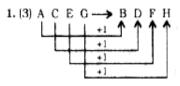
31. (2)

32. (1)

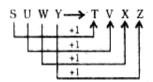
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49. (4) 50. (3) 51. (2) 52. (1) 53. (4) 54. (2) 55. (1) 56. (2) 57. (1) 58. (2) 59. (2) 60. (1) 61. (1) 62. (1) 63. (4) 64. (4) 65. (1) 66. (1) 67. (2) 68. (1) 69. (4) 70. (2) 71. (2) 72. (1) 73. (4) 74. (2) 75. (2) 76. (2) 77. (4) 78. (3) 79. (1) 80. (2) 81. (2) 82. (3) 83. (2) 84. (4) 85. (1) 86. (1) 87. (1) 88. (3) 89. (1) 90. (3) 91. (3) 92. (4) 93. (4) 94. (2) 95. (4) 96. (2) 97. (3) 98. (4) 99. (3) 100. (2) 101. (4) 102. (2) 103. (3) 104. (3) 105. (1) 106. (2) 107. (2) 108. (1) 117. (3) 118. (1) 119. (2) 120. (4) 121. (2) 122. (3) 123. (1) 124. (2)	41. (*)	42. (2)	43. (1)	44. (2)
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153. (2) 154. (3) 155. (4) 156. (1) 157. (1) 158. (4) 159. (2) 160. (4) 161. (2) 162. (3) 163. (1) 164. (3) 165. (4) 166. (4) 167. (3) 168. (3) 169. (3) 170. (1) 171. (1) 172. (4) 173. (3) 174. (1) 175. (2) 176. (2) 177. (2) 178. (2) 179. (4) 180. (3) 181. (1) 182. (2) 183. (4) 184. (4) 185. (4) 186. (2) 187. (4) 188. (1) 189. (1) 190. (2) 191. (3) 192. (1) 193. (4) 194. (2) 195. (3) 196. (3)	145. (2)	146. (3)	147. (4)	148. (3)
157. (1) 158. (4) 159. (2) 160. (4) 161. (2) 162. (3) 163. (1) 164. (3) 165. (4) 166. (4) 167. (3) 168. (3) 169. (3) 170. (1) 171. (1) 172. (4) 173. (3) 174. (1) 175. (2) 176. (2) 177. (2) 178. (2) 179. (4) 180. (3) 181. (1) 182. (2) 183. (4) 184. (4) 185. (4) 186. (2) 187. (4) 188. (1) 189. (1) 190. (2) 191. (3) 192. (1) 193. (4) 194. (2) 195. (3) 196. (3)	149. (1)	150. (1)	151 . (3)	152. (1)
161. (2) 162. (3) 163. (1) 164. (3) 165. (4) 166. (4) 167. (3) 168. (3) 169. (3) 170. (1) 171. (1) 172. (4) 173. (3) 174. (1) 175. (2) 176. (2) 177. (2) 178. (2) 179. (4) 180. (3) 181. (1) 182. (2) 183. (4) 184. (4) 185. (4) 186. (2) 187. (4) 188. (1) 189. (1) 190. (2) 191. (3) 192. (1) 193. (4) 194. (2) 195. (3) 196. (3)	153. (2)	154. (3)	155. (4)	156. (1)
165. (4) 166. (4) 167. (3) 168. (3) 169. (3) 170. (1) 171. (1) 172. (4) 173. (3) 174. (1) 175. (2) 176. (2) 177. (2) 178. (2) 179. (4) 180. (3) 181. (1) 182. (2) 183. (4) 184. (4) 185. (4) 186. (2) 187. (4) 188. (1) 189. (1) 190. (2) 191. (3) 192. (1) 193. (4) 194. (2) 195. (3) 196. (3)	157. (1)	158. (4)	159. (2)	160. (4)
169. (3) 170. (1) 171. (1) 172. (4) 173. (3) 174. (1) 175. (2) 176. (2) 177. (2) 178. (2) 179. (4) 180. (3) 181. (1) 182. (2) 183. (4) 184. (4) 185. (4) 186. (2) 187. (4) 188. (1) 189. (1) 190. (2) 191. (3) 192. (1) 193. (4) 194. (2) 195. (3) 196. (3)	161. (2)	162. (3)	163. (1)	164. (3)
173. (3) 174. (1) 175. (2) 176. (2) 177. (2) 178. (2) 179. (4) 180. (3) 181. (1) 182. (2) 183. (4) 184. (4) 185. (4) 186. (2) 187. (4) 188. (1) 189. (1) 190. (2) 191. (3) 192. (1) 193. (4) 194. (2) 195. (3) 196. (3)	165. (4)	166 . (4)	167 . (3)	168 . (3)
177. (2) 178. (2) 179. (4) 180. (3) 181. (1) 182. (2) 183. (4) 184. (4) 185. (4) 186. (2) 187. (4) 188. (1) 189. (1) 190. (2) 191. (3) 192. (1) 193. (4) 194. (2) 195. (3) 196. (3)	169. (3)	170. (1)	171. (1)	172 . (4)
181. (1) 182. (2) 183. (4) 184. (4) 185. (4) 186. (2) 187. (4) 188. (1) 189. (1) 190. (2) 191. (3) 192. (1) 193. (4) 194. (2) 195. (3) 196. (3)	173 . (3)	174. (1)	175. (2)	176. (2)
185. (4) 186. (2) 187. (4) 188. (1) 189. (1) 190. (2) 191. (3) 192. (1) 193. (4) 194. (2) 195. (3) 196. (3)	177. (2)	178. (2)	179. (4)	180. (3)
189. (1) 190. (2) 191. (3) 192. (1) 193. (4) 194. (2) 195. (3) 196. (3)	181. (1)	182 . (2)	183. (4)	184 . (4)
193. (4) 194. (2) 195. (3) 196. (3	185. (4)	186. (2)	187. (4)	188. (1)
	189. (1)	190. (2)	191. (3)	192. (1)
197. (3) 198. (2) 199. (3) 200. (4	193. (4)	194. (2)	195 . (3)	196. (3)
	197. (3)	198 . (2)	199 . (3)	200 . (4)

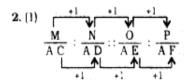
30. (3)

EXPLANATIONS



Similarly.

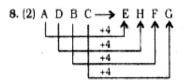




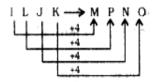
- 3. (1) $5 \times 5 + 2 = 27$ Similarly, $9 \times 9 + 2 = 83$
- 4. (3) $6 \times 2 1 = 11$ Similarly, $11 \times 2 - 2 = 20$
- 5. (3) $A + B + E \Rightarrow 1 + 2 + 5 = 8$ Similarly.

$$K + L + O \Rightarrow 11 + 12 + 15 = 38$$

- (2) The resting place of pig is called Sty. Similarly, the resting place of cow is called Byre.
- (4) In order to ensure security, police or defence personnel patrol the area. Similarly, to cover risk, insurance is done.



Similarly,



 (4) Except the number pair 9, 64 in all others perfect squares of two consecutive numbers are given.

onsecutive numbers are g					
25	36				
\downarrow	1				
$(5)^2$	(6) ²				
144	169				
1	1				
$(12)^2$	$(13)^2$				
100	121				
1	1				
$(10)^2$	$(11)^2$				

- (3) Bulb is an item while all others are phenomena.
- are related to both air and water. But tide is a regular rise and fall in the level of sea, caused by the attraction of the moon and sun.
- (2) The position number of Y in the English alphabet is an odd number.

 $Y \Rightarrow 25$

 $X \Rightarrow 24$.

$$H \Rightarrow 8, \qquad D \Rightarrow 4$$

$$13. (4) \stackrel{-1}{Z} \stackrel{-1}{K} \stackrel{-1}{K} \stackrel{-1}{K}$$

$$T \stackrel{-1}{G} \stackrel{-1}{R} \stackrel{-1}{F} \stackrel{-1}{K} \stackrel{-1}{K}$$

14. (3) Except in letter group IXYOQ, in all others there is only one Vowel.

In the letter group IXYOQ, there are two Vowels

(4) Arrangement of words according to the Dictionary

- (4) Invariable
- (1) Inventory
- (5) Investigate
- (3) Invisible
- (2) Involuntary

16. (3) B
$$\xrightarrow{+1}$$
 C $\xrightarrow{+2}$ E $\xrightarrow{+3}$ H $\xrightarrow{+4}$ L $\xrightarrow{+5}$ Q $\xrightarrow{+6}$ W

18. (4)
$$6 \times 5 = 30$$
, $30 \times 3 = 90$
8 × 6 = 48, $48 \times 4 = 192$

Therefore, the number 41 is wrong in the series.

- 20. (3) Meaningful order of the words:
 - Day → 5. Work → 1. Exhaust
 → 2. Night → 4. Sleep

22. (1) $A \xrightarrow{-2} C \xrightarrow{-2} E \xrightarrow{-2} C \xrightarrow{-2} 1 \xrightarrow{-2} K$ $G \xrightarrow{+2} I \xrightarrow{-2} K \xrightarrow{-2} M \xrightarrow{+2} O \xrightarrow{-2} Q$ $M \xrightarrow{-2} O \xrightarrow{+2} Q \xrightarrow{-2} S \xrightarrow{-2} U \xrightarrow{-2} W$ $S \xrightarrow{-2} U \xrightarrow{-2} W \xrightarrow{-2} Y \xrightarrow{-2} A \xrightarrow{-12} C$ $Y \xrightarrow{-12} A \xrightarrow{-12} C \xrightarrow{-2} E \xrightarrow{-2} G \xrightarrow{-2} I$

8 24 12 36 18 54

25. (2) Suppose the present age of Ashok is x years and that of his mother is y years.

5 years ago

24. (2)

$$3(x-5) = (y-5)$$

 $\Rightarrow 3x - 15 = y - 5$
 $\Rightarrow 3x - y = 10$ (i)

5 years hence,

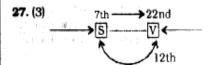
$$2(x+5) = (y+5)$$

$$\Rightarrow 2x + 10 = y + 5$$
$$\Rightarrow 2x - y = -5 \qquad \dots(ii)$$

From equations (i) and (ii) x = 15 years

26. (1) O is the husband of P. M is the son of P.

Therefore, M is the son of O.



Total number of boys in the row = 22 + 12 - 1 = 33

- 28. (3) There is no 'V' letter in the given word.
- 29. (4)

Meaningful word ⇒ HIPPOPOTAMUS

Therefore, the number 50 is wrong in the series.

31. (2) Suppose the number of women boarded the bus at Delhi is x.

Therefore, the number of men = 2x

According to question.

$$2x - 10 = x + 5$$

$$\Rightarrow 2x - x = 10 + 5$$

$$\therefore x = 15$$

Total number of passengers boarded the bus initially = 3x

$$= 3 \times 15 = 45$$

(1) Day before yesterday was Sunday.

Therefore, today is Tuesday.

Day after tomorrow will be Thursday.

Thursday + 3 = Sunday

- 33. (4) The statement implies that politicians win elections by the votes of people. Therefore, neither of the assumptions is implicit in the statement.
- (3) Both the Premises are Universal Affirmative (A-type).

All men are women.



All women are crazy.

 $A + A \Rightarrow A$ - type of Conclusion.

"All men are crazy".

This is Conclusion I.

Conclusion III is the Converse of

Conclusion IV is the Converse of Statement Q.

Therefore,

36. (1)
$$1 + 7 + 3 + 5 + 2 + 6 = 24$$

3 2 5 7 4 6 1 8

$$4 + 3 + 1 + 3 + 2 + 5 = 18$$

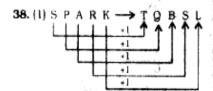
Therefore.

$$2 + 5 + 3 + 4 + 7 + 1 = 22$$

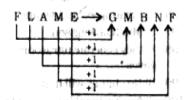
37. (4)
$$(12 + 6) \times 18 = 36$$

$$\Rightarrow$$
 (18 ÷ 6) × 12 = 36

$$\Rightarrow$$
 3 × 12 = 36



Similarly,



39. (1)
$$6 \times 5 = 30$$

$$30 \times 3 + 1 = 91$$

$$8 \times 7 = 56$$

$$56 \times 3 + 1 = 169$$

$$10 \times 7 = 70$$

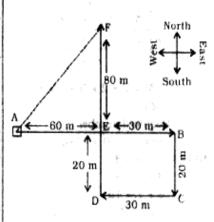
$$70 \times 3 + 1 = 211$$

Similarly,

$$11 \times 10 = 110$$

$$110 \times 3 + 1 = 331$$

40. (2)



Required distance = AF

$$=\sqrt{(80)^2+(60)^2}$$

$$\sqrt{6400 + 3600} = \sqrt{10000} = 100 \text{m}$$

41. (*) Option (2)

$$24 = 4 \times 5 + 4$$

$$\Rightarrow$$
 24 = 20 + 4...

Option (4)

$$24 = 4 + 5 \times 4$$

Both options (2) and (4) are correct.

42. (2) 5 x 3 + 1 = 16

$$16 \times 3 + 1 = 49$$

$$9 \times 3 + 2 = 29$$

$$29 \times 3 + 2 = 89$$

OUCTherefore.

$$15 \times 3 + 3 = 48$$

$$48 \times 3 + 3 = 147$$

43. (1) 1st Row ⇒ D

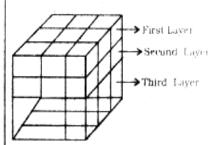
2nd Row ⇒ E

 $3rd Row \Rightarrow C$

4th Row ⇒ A

5th Row ⇒ B

44. (2)

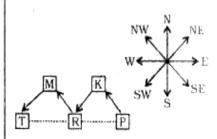


4 cubes each of the first and third layers will have paint on two sides only.

Therefore, total number of cubes having paint on two sides

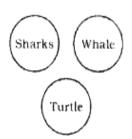
$$= 4 \times 2 = 8$$

45. (3)

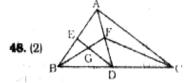


It is clear that T is located to the West of P.

46. (3) Sharks belong to class pisces. Whale is a mammal and Turtle belongs to class reptilia.







The triangles are:

 ΔABC ; ΔABD : ΔADC : ΔAFC ΔFDC ; ΔAFB : ΔFDB : ΔFBC

AGBD : AADE : AGBE : AFDG

ΔDBE:





- 51. (2) virtual and erect
- 52. (1) Vitamin B₁₂
- 53. (4) Chloropicrin
- 54. [2] Volume stress to volume strain
- (1) adiabatic compression and rarefaction
- 56. (2) Caesium
- 57. (1) Phospholipid
- 58. (2) Mitochondrion
- 59. (2) Acetic acid
- (1) Boiling point of heavy water is lower than that or ordinary water
- 61. (1) Respiration
- 62. (1) Arboreal
- 63. (4) 4, 5, 1, 3, 2
- 64. [4] V.D. Savarkar
- 65. (1) G.K. Gokhale
- 66. (1) Portuguese
- 67. (2) Cultural unity
- 68. (1) Trading blocks
- 69. (4) Leo Tolstoy
- 70. (2) Tsunami
- 71. (2) Yardang
- **72.** (1) Tropical
- **73.** (4) 2n
- 74. (2) Convection
- 75. (2) 82.5° E longitude
- 76. (2) Lord Ripon
- 77. (4) Irish Constitution
- 78. (3) Proxima Centauri
- 79. (1) Parliamentary and Presidential
- 80. (2) Planning Commission
- 81. (2) Appointed
- 82. (3) Indian Foreign Service
- 83. (2) Mangrove
- 84. (4) Decibel
- 85. (1) Pankaj Advani
- 86. (1) Mercury
- 87. (1) Red Rose
- 88. (3) Manna Dey
- (1) has a microprocessor, but cannot be programmed by the user
- 90. (3) Matrix method
- 91. (3) Reserve Bank of India
- 92. (4) Treasury bill
- 93. (4) Multilateral trade
- 94. (2) Monopolistic competition

- 95. (4) Micro Economics
- 96. (2) Floating exchange rate
- 97. (3) Mitchell Johnson
- 96. (4) they generate ultrasonic sound waves
- 99. (3) No change will happen
- 100. (2) Net National Product at factor
- 101. (4) First number × second number
 - = HCF * LCM
 - ⇒ 24 × second number = 8 × 48

$$\therefore \text{ Second number} = \frac{8 \times 48}{24} = 16$$

- \therefore LCM = $2 \times 2 \times 5 \times 7 \times 8$
- = 1120
- .. Required number
- = 5834 1120 = 4714

103. (3)
$$0 + 3 = 3$$

$$3 + 5 = 8$$

$$8 + 7 = 15$$

$$15 + 9 = 24$$

$$24 + .11 = .35$$

$$35 + 13 = 48$$

$$48 + 15 = 63$$

If
$$0.5 = a$$
 and $0.3 = b$ then,

Expression =
$$\frac{a^3 + b^3}{a^2 + ab + b^2}$$

$$= \frac{(a+b)(a^2-ab+b^2)}{a^2-ab+b^2} = a+b$$

$$= 0.5 + 0.3 = 0.8$$

$$= 1\frac{6}{9} = 1\frac{2}{3}$$

106. (2) Expression

$$= \sqrt{\frac{0.009 \times 0.038 \times 0.016 \times 0.08}{0.002 \times 0.0008 \times 0.0002}}$$

$$= \sqrt{\frac{9 \times 36 \times 16 \times 8}{2 \times 8 \times 2}}$$

$$= 3 \times 2 \times 3 \times 2 = 36$$

107. (2) Tricky approach

If the first divisor is a multiple of second divisor, then the remainder in second case = remainder obtained by dividing the first remainder by the second divisor.

$$\therefore \mathbf{Remainder} = 21 + 19 = 2$$

108. (1)
$$\sqrt{0.09} = \sqrt{0.3 \times 0.3} = 0.3$$

$$0.121212 \dots = 0.\overline{12} = \frac{12}{99} = \frac{4}{33}$$

110. (3)
$$\left(\frac{3}{5}\right)^3 \left(\frac{3}{5}\right)^{-6} = \left(\frac{3}{5}\right)^{2x-1}$$

$$\Rightarrow \left(\frac{3}{5}\right)^3 \left(\frac{3}{5}\right)^{-3} \left(\frac{3}{5}\right)^{-3} = \left(\frac{3}{5}\right)^{2x-1}$$

$$\Rightarrow \left(\frac{3}{5}\right)^0 \left(\frac{3}{5}\right)^{-3} = \left(\frac{3}{5}\right)^{2x-1}$$

$$\Rightarrow 2x - 1 = -3$$

$$\Rightarrow 2x = -3 + 1 = -2$$

111. (3) Let the numbers be 3x and 4x.

$$12x = 84$$

$$\Rightarrow x = \frac{84}{12} = 7$$

Larger number

$$= 4x = 4 \times 7 = 28$$

112. (4) Tricky approach

Let the capacity of the drum be x litres.

$$\frac{3x}{4} - 30 = \frac{7x}{12}$$

$$\Rightarrow \frac{3x}{4} - \frac{7x}{12} = 30$$

$$\Rightarrow \frac{9x-7x}{12} = 30$$

$$\Rightarrow \frac{x}{h} = 36$$

$$= x = 6 \times 30 = 180$$
 litres

113. (2)
$$675 = 5 \times 5 \times 3 \times 3 \times 3$$

Required number = 5

114.(1)
$$1\frac{1}{2} + 11\frac{1}{2} + 111\frac{1}{2} + 1111\frac{1}{2}$$

= 1236

115. (2)
$$0.\overline{001} = \frac{1}{999}$$

116. (1)
$$\frac{4.41 \times 0.16}{2.1 \times 1.6 \times 0.21}$$

$$= \frac{441 \times 16}{21 \times 16 \times 21} = 1$$

117. (3)
$$a^4 - b^4 = (a^2 + b^2) (a + b) (a - b)$$

Required number
= (3 + 1) (3 - 1) = 8

118. (1) Tricky approach

$$\frac{a^2+b^2+ab}{a^3-b^3}$$

$$= \frac{a^2 + b^2 + ab}{(a - b)(a^2 + b^2 + ab)}$$

$$= \frac{1}{a-b}$$

$$=\frac{1}{11-9}=\frac{1}{2}$$

119. (2) Tricky approach

If 256 = a and 144 = b, then

Expression =
$$\frac{a^2 - b^2}{a - b}$$

$$[a - b = 256 - 144 = 112]$$

$$=\frac{(a+b)(a-b)}{(a-b)}=a+b$$

120. (4) Tricky approach

$$a^2 - b^2 = 19$$

$$\Rightarrow 10^2 - 9^2 = 19$$

$$\Rightarrow a = 10$$

121. (2) Gain =
$$11x - 10x = Rs. x$$

$$\therefore Gain \% = \frac{Gain \times 100}{Cost price} \times 100$$

$$=\frac{x}{10x} \times 100 = 10$$

122.(3) Marked price = Rs. 50 S.P. after discount = 80% of 50 = Rs. 40

If the CP of article be Rs. x, then

$$\frac{125\times x}{100} = 40$$

$$\Rightarrow x = \frac{40 \times 100}{125} = \text{Rs. } 32$$

123. (1) Let the CP be Rs. 100.

If the marked price be Rs. x, then 90 % of x = 112

$$\Rightarrow x = \frac{112 \times 100}{90} = \text{Rs. } \frac{1120}{9}$$

.. Required ratio

124. (2) Tricky approach

C.P. of bicycle

$$=\frac{100}{114} \times 2850 = \text{Rs. } 2500$$

S.P. for a profit of 8%

$$=\frac{108}{100} \times 2500 = Rs. 2700$$

125. (4) If the S.P. of article be Rs. x.

then its CP =
$$x - \frac{x}{4}$$
 = Rs. $\frac{3x}{4}$

$$\therefore \text{ Gain } \% = \frac{\frac{x}{4}}{\frac{3x}{4}} \times 100$$

$$= \frac{100}{3} = 33\frac{1}{3}\%$$

126. (2) Tricky approach

Required precentage

$$=\frac{50}{100-50} \times 100$$

= 100%

127. (3) Required percentage

$$=\frac{1.14}{19} \times 100 = 60\%$$

128. (1) Let the numbers be 3x and 5x.

$$3x \times 5x = 2160$$

$$\Rightarrow x^2 = \frac{2160}{3 \times 5} = 144 = 12 \times 12$$

$$\Rightarrow x = 12$$

∴ Smaller number

$$= 3x = 3 \times 12 = 36$$

129. (4)
$$\frac{A \times 60}{100} = B \times \frac{3}{4}$$

 $\Rightarrow A \times \frac{3}{5} = B \times \frac{3}{4}$

$$\Rightarrow \frac{A}{B} = \frac{3 \times 5}{4 \times 3} = 5 : 4$$

130. (3) Tricky approach

Single equivalent percentage in crease in price

$$= \left(10 + 10 + \frac{10 \times 10}{100}\right)\% = 21^{-0} \text{p}$$

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

By componendo and dividendo,

$$\Rightarrow \frac{2\sqrt{3+x}}{2\sqrt{3-x}} = \frac{2+1}{2-1} = 3$$

Squaring on both sides, we get

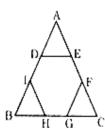
$$\frac{3+x}{3-x}=9$$

$$\Rightarrow 3 + x = 27 - 9x$$

$$\Rightarrow$$
 9x + x = 27 - 3 = 24

$$\Rightarrow x = \frac{24}{10} = \frac{12}{5}$$

132. (3) Tricky approach



Side of the regular hexagon

$$= \frac{1}{3} \times 6 = 2 \text{ cm}$$

 \therefore Area of the hexagon = $\frac{3\sqrt{3}}{2}a^{3/2}$

$$= \frac{3\sqrt{3}}{2} \times 2 \times 2$$

=
$$6\sqrt{3}$$
 sq. cm.

133. (2) Tricky approach

Length of the longest rod

$$= \sqrt{10^2 + 10^2 + 5^2}$$

$$= \sqrt{225} = 15 \text{ metre}$$

134. (3) Tricky approach

A's share

= Rs.
$$\left(\frac{3}{5} \times 1000\right)$$
 = Rs. 600

135. (4) Let the required number be x.

$$\frac{7+x}{11+x} = \frac{3}{4}$$

$$\Rightarrow 28 + 4x = 33 + 3x$$

$$\Rightarrow x = 33 - 28 = 5$$

136. (1) Tricky approach

$$A = P \left(1 + \frac{R}{100} \right)^T$$

$$2 = 1 \left(1 + \frac{\text{Rate}}{100} \right)^{15}$$

Cubing on both sides, we have

$$8 = 1 \left(1 + \frac{\text{Rate}}{100}\right)^{45}$$

Required time = 45 years

137. (3) Distance covered in 10 minutes at 20kmph = distance covered in 8 minutes at (20 + x)

$$\Rightarrow 20 \times \frac{10}{60} = \frac{8}{60}(20 + x)$$

$$\Rightarrow 200 = 160 + 8x$$

$$\Rightarrow 8x = 40$$

$$\Rightarrow x = \frac{40}{8} = 5 \text{ kmph}$$

138. (2) Tricky approach

Circumference $= 2\pi r$ (one variable)

.. The decrease in area = 50%

139. (1)
$$A = P \left(1 + \frac{R}{100}\right)^T$$

$$\Rightarrow \frac{1102.50}{1000} = \left(1 + \frac{r}{100}\right)^2$$

$$\Rightarrow \frac{11025}{10000} = \left(1 + \frac{r}{100}\right)^2$$

$$\Rightarrow \left(\frac{105}{100}\right)^2 = \left(1 + \frac{r}{100}\right)^2$$

$$\Rightarrow 1 + \frac{r}{100} = \frac{105}{100}$$

$$\Rightarrow \frac{r}{100} = \frac{5}{100}$$

140. (2) Let the annual instalment be

$$\left(x + \frac{x \times 3 \times 5}{100}\right)$$

$$+\left(x + \frac{x \times 2 \times 5}{100}\right) + \left(x + \frac{x \times 1 \times 5}{100}\right) + x$$

$$\Rightarrow \frac{115x}{100} + \frac{110x}{100} + \frac{105x}{100} + x + \frac{105x}{100} + x = \frac{105x}{100} + \frac{105x}{1$$

⇒ 115x + 110x + 105x + 100x

= 6450 × 100 ·

⇒ 430 x = 6450 x 100

141.(3) Tricky approach the total and

$$1 + 2 + 3 + \dots + n = \frac{n(n+1)}{2}$$

.. Average of these numbers

$$=\frac{n+1}{2}$$

.. Required average

$$=\frac{100+1}{2}=50.5$$

142. (2) Father + mother

Father + mother + son

= 27 x 3 = 81 years

.. Son's age # 81 - 70 = 11 years

143. (4) 5 men = 7 women

.. 7 men + 13 women

$$=\frac{49}{5} + 13 = \frac{114}{15}$$
 women 811

7 women = Rs. 5250

=
$$\frac{5250}{7} \times \frac{114}{5} = Rs. 17100$$

144. (1) Tricky approach

(A + B)'s 1 day's work = 15

B's 1 day's work = $\frac{1}{20}$

.. A's I day's work

$$=\frac{1}{15}-\frac{1}{20}=\frac{4-3}{60}=\frac{1}{60}$$

.. A alone will do the work in 60

145 (2) Tricky approach

4 of usual time = Usual time +

 $\frac{1}{9}$ rd of usual time

- 20 minutes

., Usual time = 20 x 3

= 60 minutes

146. (3) (B + C)'s 2 days' work

$$= 2\left(\frac{1}{20} + \frac{1}{30}\right) = 2\left(\frac{3+2}{60}\right)$$

$$=\frac{1}{6}$$
 part

Remaining work = $1 - \frac{1}{6} = \frac{5}{6}$ part

A Time taken by A to complete this part of work

$$=\frac{5}{6} \times 18 = 15 \text{ days}$$

147. (4) If the speed of the train be xkmph, then relative speed = (x - 3) kmph.

$$= (x-3) \times \frac{5}{18}$$
 m/sec

$$\frac{300}{(x-3)\times\frac{5}{18}} = 33$$

 $\Rightarrow 5400 = 33 \times 5 (x + 3)$

$$\Rightarrow x = \frac{393}{11} = 35\frac{8}{11} \text{ kmph}$$

148. (3) Yasin got the minimum votes. . 360 = 720

149. (I) Sivaraman got the maximum votes. i.e.

$$\frac{720}{360} \times 120 = 240$$
 votes

He was the winner.

votes of the winner and the nearest rival = 120 - 100 = 20° 360° = 720

$$\therefore 20^{\circ} = \frac{720}{360} \times 20 = 40$$

- 151. (3) Neither is used for two things. For more than two things, none should be used.
- 152. (1) After knowing the truth will be a correct usage.
- 153. (2) It is time/it is high time is followed by the clause in simple past that shows present time. Hence, decided on your next should be used.
- 154. (3) Replace let him speak by should be allowed to speak.
- 155. (4) No error
- 156. (1) was it?
- 157. (1) fill
- 158. (4) mustn't have done
- 159. (2) to
- 160. (4) metamorphosis
- 161. (2) The word Florid (Adjective) means: rosy; gaudy; ornate; red; having too much decoration or detail.

The word Pale (Adjective) means: light in colour, not strong or bright; having skin that is almost white because of illness.

Hence, the words **florid** and **pale** are antonymous.

162. (3) The word Verity (Noun) means: a belief or principle about life that is accepted as true: truth).

Hence, the words **verity** and **falsehood** are antonymous.

163. (1) The word Perspicuity (Noun) means: clarity.

The word Vagueness (Noun) means : no clarity in a person's mind.

Hence, the words **perspicuity** and **vagueness** are antonymous.

164. (3) The word Fervent (Adjective) means: having or showing very strong and sincere feelings about something; ardent. The word **Dispassionate (Adjective)** means 3 not influenced by emotion; impartial

Hence, the words fervent and dispassionate are antonymous.

165. (4) The word Meandering (Adjective) means not straight curved; a course that does not follow a straight path.

Hence: the words meandering and straight are antonymous.

- 166. (4) The word Luxuriant (Adjective) means: growing thickly and strongly; rich in something that is pleasant or beautiful; abundant.
- 167. (3) The word Cantankerous (Adjective) means: bad tempered and always complaining.

Hence, the words cantankerous and quarrelsome are synonymous.

168. (3) The word Onus (Noun) means: the responsibility for something.

Look at the sentence :

The onus is on employers to follow health and safety laws.

- 169. (3) The word Derision [Noun] means: ridicule: mockery: a strong feeling that somebody/ something is ridiculous and not worth considering seriously.
- 170. (1) The word Trite (Adjective)
 means: dull and boring because
 it has been expressed so many
 times before; not original; banal;
 very ordinary and containing
 nothing that is interesting or important.

Hence, the words **trite** and **commonplace** are synonymous.

- 171.(1) Phrase 'cut out' means : to have the qualities and abilities needed for something.
- 172. (4) No improvement
- 173. (3) requires a wash
- 174. (1) word for word means : in exactly the same words or when translated exactly equivalent words.
- 175. (2) The word sensual (Adjective) means: connected with your physical feelings; giving pleasure to your physical senses, especially to sexual pleasures.
- 176. (2) Manoeuvre
- 177. (2) Ineffable

- 178. (2) Iconoclas.
- 179. (4) Internment
- 180. (3) Ethnology
- 181.(1) Correct spellings of other words are : commemorate and late and chocolate
- 182. (2) Correct spellings of other words are : circuitous, charalty and cavalcade
- 183. (4) Correct spellings of other words are: severity, sovereignts, and superiority.
- 184. (4) Correct spellings of other words are a cumulative, now memorative and accumulative
- 185. (4) Correct spellings of other words are a benediction for smirch and beneficent.
- 186. (2) QPSR
- 187. (4) SPRQ
- 188. (1) SRPQ
- 189. (1) SRQP
- 190. (2) QPRS
- 191. (3) A film, based on this novel has been made
- 192. (1) I couldn't be moved to the hospital and was operated on at a 1 home by the doctor.
- 193. (4) Why were you deprived of your membership by him?
- **194.** (2) He has brought the news to
- 195. (3) The criminal did not speak a word in self-defence.
- 196. (3) should resemble mathematical formula
- 197. (3) a linguist
- 198. (2) technical terminology
- 199. (3) the average man often uses in his own vocabulary what was once technical language not meant for him
- 200.(4) Government



Inspiring People