# SSC COMBINED GRADUATE LEVEL TIER-1 EXAMINATION 2010 (FIRST SITTING)

## PART-A **GENERAL INTELLIGENCE** REASONING

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

- 1. ACEG: SUWY:: BDFH:? (1) TVZX (3) RTZV
  - (2) TVXZ (4) RTVZ
- $\frac{M}{AC}: \frac{N}{AD}: \frac{O}{AE}: ?$ 
  - $(1) \frac{P}{AF}$   $(2) \frac{P}{AC}$
- 5:27::9:?
  - (1) 83 (3)36(2) 81 (4) 18
- 4. 6:11::11:?
  - (1)6(3)20(2)17(4)30
- ABE:8::KLO:?
  - (1)37(3)38(2)39(4)36
- 6. Sty: Pig:: Byre:?
  - (3) Tiger (1) Eagle (2) Cow (4) Hen
- 7. Patrol: security:: Insurance:?
  - (1) Money (3) Savings
    - (2) Policy (4) Risk
- 8. ADBC: EHFG:: ILJK:?
  - (1) MOPN (3) ORPQ
  - (2) MPNO
- (4) MPON

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

- (1) 25, 36 144, 169 (2) (4) 9,64 (3) 100, 121
- 10. (1) Heat (2) Light
- (4) Electricity (3) Bulb
- 11. (1) Wave (2) Current
  - (3) Tide (4) Storm
- 12. (1) X (2) Y (3) H(4) D
- 13. (1) ZKXI (2) CMAL
- (4) FRTK (3) TGRF
- (2) QRTUZ 14. (1) ABJNM (4) WFGOP (3) IXYOQ
- 15. Arrange the following words according to the dictionary?
  - 4. Invariable 1. Inventory
  - 2. Involuntary 5. Investigate
  - 3. Invisible
  - (1) 4,2,5,3,1 (3) 2,5,4,1,3
  - (2) 4,5,1,3,2 (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 letters when sequentially placed at the gaps in the given letter series shall complete it?
  - a\_b\_a\_n\_bb\_abbn
  - (1) Abnabb
- (3) bnbbna
- (2) Bnbban
- (4) bannan
- 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
- (3) 7, 42, 218
  - (2) 6, 24, 70
- (4) 8, 48, 192
- 19. Which one number is wrong in the given series?
  - 126, 98, 70, 41, 14
  - (1)98
- (3)126
- (2) 70
- (4)41
- 20. Arrange the following in the meaningful/logical order:
  - 1. Exhaust 4. Sleep
  - 2. Night
  - 4. Work 3. Day
  - (1) 1,3,5,2,4
- (3) 3,5,1,4,2
- (2) 3,5,1,4,2
- (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, \_\_\_?
  - (1) 31
- (3)43
- (2) 39
- (4)47
- 22. AGMSY, CIOUS, EKQWC, \_ IOUAG, KQWCI
  - (1) GMSYE
- (3) FMSYE
- (2) GNSYD
- (4) FMYES
- 23. 975, 864, 753, 642, \_
- \_?
  - (1) 431
- (3)531
- (2) 314
- (4)532
- 24. 8, 24, 12, \_\_\_, 18, 54
  - (1) 28
- (3)46
- (2) 36 (4)3825. Ashok's mother was 3 times as old
- as Ashok 5years age. After 5 years she will be twice as old as Ashok. How old is Ashok today?
  - (1) 10 yrs
- (3) 20 yrs
- (2) 15 yrs
- (4) 25 yrs
- 26. M is the son of P. Q is the granddaughter of 0 who is the husband of P. How is M related to O?
  - (1) Son
- (3) Mother
- (2) Daughter
- (4) Father
- 27. In a row of boys, Srinath is 7th from the left & 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
- (3)33
- (2) 31
- (4)34

- 28. From the given alternative words select the word which cannot be formed using the letters of the given word: IMPASSIONABLE
  - (1) IMPASSABLE (3) IMPASSIVE
  - (2) IMPOSSIBLE (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 given series?
  - 1, 9, 25, 50, 81
  - (1) 1
- (3)50
- (2) 25
- (4)81
- 31. A bus leaves Delhi with half the number of women as men. At Meerut, ten men get down & five women get in. Now there are equal number of men & women. How many passengers boarded the bus initially at Delhi?
  - (1) 36
- (3)15
- (2) 45
- (4)3032. If the day before yesterday was Sunday, what day will it be three days after the day after tomorrow?
  - (1) Sunday
- (3) Wednesday
- (2) Monday

(4) Saturday **Directions (33):** In the following question, one statement is given followed by tow assumptions I & II. 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 rich.
- II. Politicians become rich by their virtue.
  - (1) Only I is implicit
  - (2) Only II is Implicit
- (3) Both I & II are implicit
- (4) Both I & II are not implicit

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

### 34. Statements:

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

#### **Conclusions:**

- All men are crazy.
- II. All the crazy are men
- III. Some of the crazy are men
- IV. Some of the crazy are women
- (1) None of the conclusions follows
- (2) All the conclusions follow
- (3) Only I, III & IV follow
- (4) Only II & III follow
- 35. If HOSPITAL is written as 32574618 in a certain Code, how would POSTAL be written in that code?
  - (1) 752618
- (3) 725618
- (2) 725108
- (4) 725861
- 36. Find the missing number from the given question
  - 173 (24) 526
  - 431 (18) 325
  - 253 (?) 471
  - (1) 22
- (3)30
- (2) 42
- (4)06
- 37. After interchanging + & ×, 12 & 18, which one of the following equations become correct?
  - $(1) (90 \times 18) + 18 = 60$
  - $(2) (18 + 6) \times 12 = 2$
  - $(3) (72 + 18) \times 18 = 72$
  - $(4) (12+6) \times 18 = 36$
- 38. If SPARK is coded as TQBSL, what will be the code for FLAME?
  - (1) GMBNF
- (3) GMCND
- (2) GNBNF
- (4) GMBMF
- 39. Find out the correct answer for the unsolved equation on the basis of the given equations.
  - If 6\*5 = 91
    - 8\*7 = 169
    - 10 \* 7 = 211

Then 11 \* 10 = ?

- (1) 331
- (3)676
- (2) 993
- (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 100 metres to his north before meeting his father in a street. How far did the son meet his father from the starting point?
  - (1) 90m
- (3) 260m
- (2) 100m
- (4) 140m

41. In the following question,  $\Delta$  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.

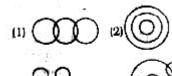
24  $\Delta$  4  $\Delta$  5  $\Delta$  4

- (1) X + =
- (3) = x +
- (2) + x =
- $(4) = + \times$
- 42. What is te number missing from the third target?
  - 5 9 15
  - 29 16 ?
  - 89 147 49
  - (1) 45
- (3)51
- (2) 48
- (4)54
- 43. In a classroom, there are 5 rows, & 5 children A, B, C, D & E are seated one behind the other in 5 separate rows as follows:
  - A is sitting behind C, but in front of
  - C is sitting behind E. D is sitting in front of E.
  - The other in which they are sitting from the first row to the last is
  - (1) DECAB
- (3) ACBDE
- (2) BACED
- (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 broken up into the original little ones, how many cubes will have paint on two sides?
  - (1) 4
- (3)12
- (2) 8(4)045. 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
  - (1) South-west
- (3) West
- (2) North-west

relation to P?

- (4) North
- 46. Find out which of the diagrams given in the alternatives correctly represents the relationship stated in the question.

Sharks, Whales, Turtles



47. Question Figure

figure.



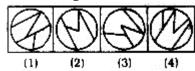
Directions (47): In this question,

figure can be formed from the cut-

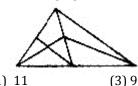
pieces given below in the question

among the four answer figures, which

**Answer Figure** 



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

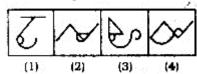


- (1) 11
- (2) 13
- (4)15
- 49. From the given answer figures select the one in which the question figure is hidden/embedded in the same direction.

**Question Figure** 



**Answer Figure** 

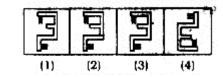


50. Which answer figure is the exact mirror image of the given question figure when the mirror is held from the right at PQ?

**Question Figure** 



**Answer Figure** 



## PART-B **GENERAL AWARENESS**

- 51. A concave lens always forms an image which is
  - (1) Real & erect
  - (2) Virtual & erect
  - (3) Real & inverted
  - (4) Virtual & inverted
- 52. A vitamin requires cobalt for its activity. The vitamin is
  - (1) Vitamin  $B_{12}$  (3) Vitamin  $B_2$
  - (2) Vitamin A (4) Vitamin D
- 53. One of the constituents of tear gas is
  - (1) Ethane (3) Ethanol
  - (2) Ether (4) Chloropicrin
- 54. The modulus of rigidity is the ratio of
  - (1) 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
  - (1) Adiabatic compression & rarefaction
  - (2) Isothermal compression & rarefaction
  - (3) Isochoric compression & rarefaction
  - (4) Isobaric compression & rarefaction
- 56. An atomic clock is based on transition in
  - (1) Sodium
- (3) Magnesium
- (2) Caesium
- (4) Aluminium
- 57. Plasma membrane in eukaryotic cells is made up of
  - (1) Phospholipids
  - (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) Ribosome
  - (4) Lysosome
- 59. What is the chemical name of Vinegar?
  - (1) Citric acid
- (3) Pyruvic acid
- (2) Acetic acid
- (4) Malic acid 60. Which of the following is not a
- property of heavy water? (1) Boiling point of heavy water is
  - higher than that or ordinary water
  - (2) Density of heavy water is higher than that of ordinary water
  - (3) Freezing point of heavy water is higher than that of ordinary water
  - (4) It produces corrosion

- 61. In which of the following process 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 in chronological order:
  - Tughlags
  - 2. Lodis
  - 3. Saivids
  - 4. Ilbart Turks
  - 5. 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
  - (1) Krishna Verma
  - (2) Madame Cama
  - (3) B G Tilak
  - (4) V D Savarkar
- 65. Who was the founder of the "Servants of India Society"?
  - (1) G K Gokhale
  - (2) M G Ranade
  - (3) B G Tilak
  - (4) Bipin 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 Tolstoy
- 70. 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
- 72. 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
  - (3)  $\frac{3n}{2}$ (3)  $\frac{n}{2}$
  - (4) 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
  - (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) US Constitution
- (4) Irish Constitution 78. Which is the second nearest
  - star to the Earth after the Sun?
  - (1) Vega (2) Sirius
  - (3) Proxima Centauri
  - (4) Alpha Centauri
- 79. The two forms of democracy
  - (1) Parliamentary & Presidential
  - (2) Direct & Indirect
  - (3) Monarchical & Republican
  - (4) Parliamentary & 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
  - (2) Appointed
  - (3) Nominated

  - (4) Selected

82. Which is not an All India 92. A short-term government security Service? paper is called (1) Indian Administration Service (1) Share (3) Mutual Fund (2) Indian Police Service (2) Debenture (4) Treasury Bill (3) Indian Foreign Service 93. WTO basically promotes (4) Indian Forest Service (1) Financial support 83. The forest in Sunderban is (2) Global peace Called (3) Unilateral trade (1) Scrub Jungle (4) Multilateral trade (2) Mangrove 94. Under which market condition (3) Deciduous forest do firms have excess capacity? (4) Tundra (1) Perfect competition 84. Noise is measured in (2) Monopolistic competition (1) Watt (3) Centigrade (3) Duopoly (2) REM (4) Decibel (4) Oligopoly 85. Who among the following 95. Price theory is also known as (1) Macro Economics captured his third consecutive National Billiards title in the (2) Development Economics year 2009 (3) Public Economics (1) Pankaj Advani (4) Micro Economics (2) Devendra Joshi 96. At present, India is following (3) Geet Sethi (1) Fixed exchange rate (4) Dhruv Sitawala (2) Floating exchange rate 86. The Messenger Satellite (3) Pegged up exchange rate launched by NASA is to study (4) Pegged down exchange (1) Mercury (3) Saturn (2) Venus (4) Jupiter 97. Who among the following 87. What was the name of the ship won the ICC Cricketer of the that sank near the Paradip Port Year Award for the year in September, 2009 causing an 2009? oil spill? (1) M S Dhoni (1) Red Rose (2) Cautam Gambhir (2) Black Rose (3) Mitchell Johnson (3) White Rose (4) Tillakartne Dilshan (4) Green Rose 98. The bats can fly in the dard 88. Who among the following has Because been honoured with the (1) They can see the objects in prestigious Dadasaheb Phalke darkness Award for 2007? (2) They have weak legs & are (1) Yash Chopra likely to be attacked by (2) Ustsad Amjad Ali Khan predators (3) Manna Dey (3) They generate flashes of light (4) A Nageshwara Rao (4) They generate ultrasonic 89. An Intelligent terminal sound waves 99. What changes will happen to (1) has a microprocessor, but a bowl of ice & water kept at can not be programmed by the exactly zero degree Celsius? (2) can process small data (1) All ice will melt processing jobs, with the use of (2) All water will become ice a large CPU (3) No change will happen (3) interacts with the user in (4) Only some ice will melt 100. National Income is the **English** (1) Net National Product at (4) cannot take data from the market price 90. Which one of the following is (2) Net National Product at not a method of estimating factor cost (1) Net Domestic Product at National Income? (1) Expenditure method market price (2) Product method (2) Net domestic Product at factor (3) Matrix method cost (4) Income method 91. The monetary policy is India is formulated by (1) Central Government

(2) Industrial Financial

Corporation of India

(4) Industrial Development Bank

(3) Reserve Bank of India

of India

## PART-C **NUMERICAL APTITUDE** 101. The H.C.F. & 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) 16102. The greatest number, which when subtracted from 5834, gives a number exactly divisible by each of 20, 28, 32 & 35, is (1) 1120(2)4714(3)5200(4)5600103. The ninth term of the sequence 0, 3, 8, 15, 24, 35 and 35, is (1)63(2)70(4)99(3)80104. $\frac{0.125 + 0.027}{0.25 - 0.15 + 0.09}$ is equal to (1) 0.3(2) 0.5(4) 0.9(3) 0.8105. The sum of the series (1+0.6+0.06+0.006+0.0006+...) is (1) $1\frac{2}{3}$ (3) $2\frac{1}{3}$ (2) $1\frac{1}{3}$ (4) $2\frac{2}{3}$ $106.\,\sqrt{\tfrac{0.009\times0.036\times0.016\times0.08}{0.002\times0.0008\times0.0002}}$ is equal to (1) 34 (3)38(2) 36(4)39107. A number, when divided by 114, leaves remainder 21. If the same number is divided by 19, then the remainder will be (1) 1(3)7(2) 2(4)17108. The square root of 0.09 is (1) 0.30(3) 0.03(2) 0.81(4) 0.081109. The number 0.121212.... in the, form $\frac{p}{q}$ is equal to $(1) \frac{4}{11} \qquad (3) \frac{4}{33}$ $(2) \frac{2}{11} \qquad (4) \frac{2}{33}$ $110. \text{ If } \left(\frac{3}{5}\right)^3 \left(\frac{3}{5}\right)^{-3} = \left(\frac{3}{5}\right)^{2x-1}, \text{ then x is}$ (1) -2(3) -1(2) 2 (4)1111. Two numbers are in the ratio 3:4. Their L.C.M. is 84. The greater number is (1) 21 (2) 24 (4) 84 112. A drum of kerosene is $\frac{3}{4}$ full. When 30 litres of kerosene is drawn from it, it remains $\frac{7}{12}$ full. The capacity of the drum is (1) 120l (3) 150l(2) 135l (4)180l113. By what least number should 675 be multiplied so as to obtain a perfect cube number?

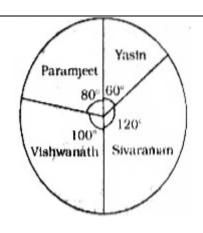
(1) 3

(2) 5

(3)24

(4)40

114. $\left(1\frac{1}{2} + 11\frac{1}{2} + 111\frac{1}{2} + 1111\frac{1}{2}\right)$ is	127. 1.14 expressed as a % of 1.9 is	139. At what rate % per annum will a
` = = = = = = :	(1) 6% (3) 60%	sum of Rs. 1000 amount to Rs.
equal to	(2) 10% (4) 90%	1102.50 in 2 yrs at compound
(1) 1236 (2) $1234\frac{1}{2}$	128. Two natural numbers are in the	interest?
(3) 616 (4) 617	ratio 3:5 & their product is 2160.	(1) 5 (3) 6
$115.0.\overline{001}$ is equal to	The smaller of the numbers is	(2) 5.5 (4) 6.5
$(1) \frac{1}{}$ $(3) \frac{1}{}$	(1) 36 (3) 18	140. What annual payment will
(1) $\frac{1}{1000}$ (3) $\frac{1}{999}$ (2) $\frac{1}{99}$ (4) $\frac{1}{9}$	(2) 24 (4)12	discharge a debt of Rs. 6450 due
$(2) \frac{1}{99}$ $(4) \frac{1}{9}$	129. If 60% of A = $\frac{3}{4}$ of B, then A : B is	in 4 years at 5% per annum
116. $\frac{4.41 \times 0.16}{2.1 \times 1.6 \times 0.21}$ is simplified to	129. If $00\%$ of $A = \frac{1}{4}$ of $B$ , then $A : B$ is	simple interest?
116. $\frac{1}{2.1\times1.6\times0.21}$ is simplified to	(1) 9:20 (3) 4:5 (2) 20:9 (4) 5:4	(1) Rs. 1400 (3) Rs. 1550
(1) 1 (3) 8 (2) 6 (4) 12	(2) 20:9 (4) 5:4	(2) Rs. 1500 (4) Rs. 1600
(2) 6 (4) 12	130. Two successive price increases of	141. The average of the first 100
117. If a & b are two odd positive	10% & 10% of an article are	positive integers is
integers, by which of the	equivalent to a single price	(1) 100 (3) 50.5
following integers is $(a^4 - b^4)$	increase of	(2) 51 (4) 49.5
always divisible?	(1) 19% (3) 21%	142. In a family, the average age of a
(1) 3 (3) 8	(2) 20% (4) 22%	father & mother is 35 yrs. The
(2) 6 (4) 12	$131. \frac{\sqrt{3+x} + \sqrt{3-x}}{\sqrt{3+x} - \sqrt{3-x}} = 2 \text{ then x is equal}$	average age of the father, mother
118. If $a = 11 \& b = 9$ , then the value of	131. $\frac{1}{\sqrt{3+x}-\sqrt{3-x}}$ = 2 then x is equal	& their only son is 27 yrs. What is
	Το	the age of the son?
$\left(\frac{a^2+b^2+ab}{a^3-b^3}\right)$ is		(1) 12 yrs (3) 10.6 yrs
$(1)^{\frac{1}{2}}$ (3) 2	$(1) \frac{1}{12}$ $(3) \frac{1}{5}$	(2) 11 yrs (4) 10 yrs
	$(1) \frac{5}{12} \qquad (3) \frac{12}{5} $ $(2) \frac{5}{7} \qquad (4) \frac{7}{5}$	143. If 5 men or 7 women can earn Rs.
$(2) \frac{1}{20} \tag{4) 20}$	132. An equilateral triangle of side 6	
256×256-144×144	cm has its corners cut off to form	5250 per day, how much would 7
119. $\frac{112}{112}$ is equal to	a regular hexagon. Area (in cm <sup>2</sup> )	men & 13 women earn per day?
(1) 420 (3) 360		(1) Rs. 11600 (3) Rs. 16100 (2) Rs. 11700 (4) Rs. 17100
(2) 400 (4) 320	of this regular hexagon will be	
120. If a & b positive integers such that	(1) $3\sqrt{3}$ (3) $3\sqrt{6}$	144. If A & B together can complete a
$(a^2 - b^2) = 19$ , then the value of a is	(2) $6\sqrt{3}$ (4) $\frac{5\sqrt{3}}{2}$	piece of work in 15 days & B
(1) 19 (3) 9		alone in 20 days, in how many
(2) 20 (4) 10	133. The length (in metres) of the	days can A alone complete the
121. If the ratio of cost price and	longest rod that can be put in a	word?
selling price of an article be as	room of dimensions 10 m × 10 m	(1) 60 (3) 40
	× 5 m is	(2) 45 (4) 30
10:11, the percentage of profit is	(1) $15\sqrt{3}$ (3) $10\sqrt{2}$ (2) 15 (4) $5\sqrt{3}$	145. By walking at $\frac{3}{4}$ of his usual speed,
(1) 8 (3) 11	(2) 15 (4) $5\sqrt{3}$	a man reaches his office 20
(2) 10 (4) 15	134. If Rs. 1000 is divided between A &	minutes later than his usual time.
122. A manufacturer marked an article	B in the ratio 3 : 2 then A will	The usual time taken by him to
at Rs. 50 & sold it allowing 20%	Receive	reach his office is
discount. If his profit was 25%	(1) Rs. 400 (3) Rs. 600	(1) 75 min (3) 40 min
then the cost price of the article	(2) Rs. 500 (4) Rs. 800	(2) 60 min (4) 30 MIN
was	135. What must be added to each term	146. A can complete a piece of work in
(1) Rs. 40 (3) Rs. 32	of the ratio 7:11, so as to make it	18 days, B in 20 days & C in 30
(2) Rs. 35 (4) Rs. 30	equal to 3 : 4?	days. B & C together start the
123. A shopkeeper earns a profit of	(1) 8 (3) 6.5	work & are forced to leave after 2
12% on selling a book at 10%	(2) 7.5 (4) 5	days. The time taken by A alone to
discount on the printed price. The	136. A sum of money at compound	complete the remaining work is
ratio of the cost price and the	Interest doubles itself in 15 years.	(1) 10 days (3) 15 days
printed price of the book is	It will become eight times of itself	(2) 12 days (4) 16 days
(1) 45:56 (3) 47:56	In	147. A train, 300m long passed a man,
(2) 45:51 (4) 47:51	(1) 45 yrs (3) 48 yrs	walking along the line in the same
124. By selling a bicycle for Rs. 2850 a	(2) 54 yrs (4) 60 yrs	direction at the rate of 3 km/hr in
shopkeeper gains 14%. If the	137. Buses start from a bus terminal	33 sec. The speed of the train is
profit is reduced to 8% then the	with a speed of 20 km/hr at	(1) 30km/hr (3) 32km/hr
selling price will be	intervals of 10 minutes. What is	
(1) Rs. 2600 (3) Rs. 2700	the speed of a man coming from	(2) $32\frac{8}{11}$ km/hr (4) $35\frac{8}{11}$
(2) Rs. 2800 (4) Rs. 3000	the opposite direction towards the	
125. By selling an article, a man makes	bus terminal if he meets the buses	<b>Directions (148-150):</b> The pie chart
a profit of 25% of its selling price.	at intervals of 8 minutes?	given here, represents the number of
His profit % is?	(1) 3 km/hr (3) 5 km/hr	valid votes obtained by four students
(1) 20 (3) 25	(2) 4 km/hr (4) 7 km/hr	who contested election for school
(2) $16\frac{2}{3}$ (4) $33\frac{1}{3}$	138. If the circumference of a circle is	leadership. The total number of valid
126. If A's income is 50% less than that	decreased by 50% then the % of	votes polled was 720.
of B's, then B's income is what %	decrease in its area is	Observe the chart & answer
more than that of A?	(1) 25 (3) 60	the questions based on it.
(1) 125 (3)75	(2) 50 (4) 75	
(2) 100 (4) 50	(-)	
(4) 100		



- 148. What was the minimum number of votes obtained by any candidate?
  - (1) 100
- (3)120
- (2) 110
- (4)130
- 149. What was the winner?
  - (1) Sivaraman
- (3) Paramjeet
- (2) Yasin
- (4) Vishwanath
- 150. By how many votes did the winner defeat his nearest rival?
  - (1) 40
- (3)48
- (2) 45
- (4)50

## PART-D ENGLISH COMPREHENSION

**Directions (151-155):** In the following questions, some of the sentences have errors and some have none. Find out which part of a sentence has an error. The number of that part is your answer. Your answer is (4) i.e. No error.

- 151. He is a university professor (1)/but of his three sons (2)/ neither has any merit. (3)/No error (4)
- 152. After knowing truth, (1)/ they took the right decision (2)/ in the matter. (3)/ No error (4)
- 153. It is time you (1)/ decide on your next (2)/ course of action. (3)/ No error (4)
- 154. He who has suffered most (1)/ for the cause, (2)/ let him speak. (3)/ No error (4)
- 155. A cup of coffee (1)/ is an excellent complement (2)/ to smoked salmon. (3)/ No error (4)

**Directions (156-160):** Sentences are given with blanks to be filled in with an appropriate word(s). Four alternatives are suggested for each question. Choose the correct alternative out of the four.

- 156. The hotel was not too expensive,
  - (1) was it?
- (3) wasn't it?
- (2) wasn't it?
- (4) isn't it? 157. Like humans, zoo animals must have a dentist \_\_\_\_\_ their teeth.
  - (1) Fill (2) Filled
- (3) filling (4) to be filled

- 158. It was very kind of you to do the washing-up, but you \_\_\_\_ it.
  - (1) Didn't have to do
  - (2) Hadn't to do
  - (3) Mightn't have done
  - (4) Mustn't have done
- 159. He went \_\_\_\_ sea alone.
  - (1) in (2) to
- (3) into (4) on
- 160. The \_\_\_\_ of our civilization from an agricultural society to today's complex industrial world was accompanied by war.
  - (1) Adjustment
  - (2) Migration
  - (3) Route
  - (4) Metamorphosis

**Directions (161-165):** In the following questions choose the word opposite in meaning to the given word.

#### 161. **FLORID**

- (1) Weak
- (2) Pale
- (3) Monotonous
- (4) Ugly

#### **162. VERITY**

- (1) Sanctity
- (2) Reverence
- (3) Falsehood
- (4) Rarity

#### 163. PERSPICUITY

- (1) Vagueness
- (2) Dullness
- (3) Unfairness (4) Unwillingness

#### 164. PERVENT

- (1) In excitable
- (2) Enduring
- (3) Dispassionate
- (4) Subdued

## 165. MEANDERING

- (1) Sliding
- (2)Sloping
- (3) Strained
- (4) Straight

Directions (166-170): In the following questions out of the four alternatives, choose the one which best expresses the meaning of the given word.

#### 166. LUXURIANT

- (1) Luxury-loving
- (2) Lovely
- (3) Rich
- (4) Abundant

## 167. CANTANKEROUS

- (1) Cancerous
- (2) Ferocious
- (3) Quarrelsome
- (4) Fissiparous

## 168. **ONUS**

- (1) Sadness
- (2) Happiness
- (3) Responsibility
- (4) Criticism

## 169. **DERISION**

- (1) Humiliation
- (2) Embarrassment
- (3) Ridicule
- (4) Condemnation

### 170. **TRITE**

- (1) Commonplace
- (2) Clever
- (3) Brief
- (4) Impudent

**Directions (171-175):** In the following questions a part of the sentence is **bold**. Below are given alternatives to the **bold** part at (1), (2) and (3) which may improve the sentence. Choose the correct alternative. In case no improvement is needed your answer is (4).

- 171. Obviously he isn't **cut up** to be a good teacher.
  - (1) Cut out
  - (2) Cut in
  - (3) Cut for
  - (4) No improvement
- 172. Power got with money is the most craved for today.
  - (1) Sought after
  - (2) Wished for
  - (3) Welcomed for
  - (4) No improvement
- 173. The brown shirt wants washing
  - (1) Has to wash
  - (2) Is in need of a wash
  - (3) Requires a wash
  - (4) No improvement
- 174. You are asked to copy this letter word by word.
  - (1) Word for word
  - (2) Word with word
  - (3) Word to word
  - (4) No improvement
- 175. The weak man is a slave to his sensuous pleasures.
  - (1) Sensory
  - (2) Sensual
  - (3) Secondary
  - (4) No improvement

Directions (176-180): In the following questions out of the four alternatives choose the one which can be substituted for the given words/ sentence.

- 176. An underhand device resorted to in order to justify misconduct
  - (1) Subterfuge
  - (2) Manoeuvre
  - (3) Stratagem
  - (4) Complicity
- 177. Impossible to describe
  - (1) Miraculous
  - (2) Ineffable
  - (3) Stupendous
- (4) Appalling 178. One who criticises popular beliefs Which he thinks is mistaken or Unwise
  - (1) Philistine
  - (2) Iconoclast
  - (3) Imposter
  - (4) Cannibal
- 179. Detaining & 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
- (3) colate
- (2) comemorate
- (4) chociate
- 182. (1) circulteous
- (3) chivelory(4) cavelcade
- (2) clairvoyant 183. (1) severety
- (3) superiorty
- (2) sovereignity
- (4) serenity
- 184. (1) cummulative
  - (2) comemorative
  - (3) accumulative
  - (4) accommodative
- 185. (1) benidiction
  - (2) besmerch
  - (3) beneficient
  - (4) benevolence
- **Directions (186-190):** In the following questions, the 1<sup>st</sup> & the last sentences of the passage are numbered 1 & 6. The rest of the passage is split into four parts & named P, Q, P & S. These four parts are not given in their proper order. Read the sentence & find out which of the four combinations is correct. Then find the correct answer.
- 186. 1. Education in India had a glorious beginning.
  - P. But after the British rule, it faced many changes.
  - Q. It went on for centuries with the same glory.
  - R. English as the medium of instruction had a very great response.
  - S. One of the changes was the introduction of English as the medium of instruction.
  - 6. As the Britishers left we had a complexity of opinions regarding English.
  - (1) PQRS
- (3) PQSR
- (2) QPSR
- (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.
  - Q. Then question remains unanswered because our country cannot show opportunities to the intellectuals.
  - R. Then, what about their obligation to the Motherland?
  - S. First, we should ask ourselves as to what is happening to the young intellectuals in India.

- 6. This situation of Brain-Drain leads to a variety of problems.
- (1) PSQR
- (3) PSRQ
- (2) RPSQ (4) SPRQ 188. 1. It is the responsibility of parents to teach the young
  - moral values in life.

    P. Many children take advanta
    - P. Many children take advantage of their parent's busy schedule.
    - Q. This results in children's ignorance of social values.
    - R. The reason behind it is that parents are quite busy now-adays
    - S. Now-a-days parents spend very meagre time with children.
    - 6. As such, the society is going away from the value system.
    - (1) SRPQ
- (3) SQRP
- (2) PQRS (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 yoge, 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.
  - S. But he who abstains from action altogether is only an idler.
  - 6. A yogi is one who is not attached to his objects of sense or to action and whose mind has ceased to roam restlessly.
  - (1) SRQP
- (3) QRSP
- (2) RQPS
- (4) PRSQ
- 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 going 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
- (3) PRSQ
- (2) QPRS
- (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.
  - (1) 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.
  - (1) 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 bought us the news.
  - (2) He has brought us the news.
  - (3) He was brought the news to
- (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 self-defence 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, vet, 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 now language
- 199. It is true that
  - (1) Various professions and occupations often interchange words
  - (2) There is always a nontechnical 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 number of technical terms in the nomenclature of
  - (1) Farming
  - (2) Fishing
  - (3) Sports
  - (4) Government