# SOLVED PAPER SSC COMBINED GRADUATE LEVEL PRELIM EXAM

Held on: 16.05.2010 (First Sitting)

### GENERAL INTELLIGENCE

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

- (a) TVZX
- (b) RTZV
- (c) TVXZ
- (d) RTVZ

2. 
$$\frac{M}{AC}$$
:  $\frac{N}{AD}$ ::  $\frac{O}{AE}$ :?

- (a)  $\frac{P}{AF}$  (b)  $\frac{Q}{AB}$
- (c)  $\frac{P}{AC}$
- 3.5:27::9:?
  - (a) 83
- (c) 36
- 4.6:11::11:?
  - (a) 6 (c) 20
- (d) 30
- 5. ABE: 8:: KLO
  - (a) 37
- (b) 39
- (c) 38
- 36
- 6. Sty: Pig:: Byre:?
  - (a) Eagle
- (b) Cow
- (c) Tiger
- (d) Hen
- 7. Patrol: Security:: Insurance:? (a) Money
  - (b) Policy
  - (c) Savings

- (d) Risk
- 8. ADBC: EHFG:: ILJK:? (a) MOPN
  - (b) MPNO
  - (c) ORPQ
- (d) MPON

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

- 9. (a) 25,36 (c) 100, 121
- (b) 144, 169 (d) 9,64
- 10. (a) Heat
- (b) Light
- (c) Bulb 11. (a) Wave
- (d) Electricity
- (c) Tide
- (b) Current (d) Storm
- 12. (a) X
- (b) Y
- (c) H
- (d) D
- 13. (a) ZKXJ
- (b) CMAL (d) FRTK
- (c) TGRF
- (b) QRTUZ
- 14. (a) ABJNM (c) IXYOQ
- (d) WFGOP
- 15. Arrange the following words according to the dictionary?
  - 1. In ventory
- 2. Involuntary
- 3. Invisible
- 4. Invariable
- 5. Investigate
- (a) 4, 2, 5, 3, 1
- (b) 4, 5, 1, 3, 2
- (c) 2, 5, 4, 1, 3
- (d) 4, 1, 5, 3 2
- 16. Find the next two letters in the given series. BCEHL??
  - (a) XY
  - (c) QW
- (b) MN (d) OP
- 17. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it ?
  - a b a n bb abbn
  - (a) abnabb
- (b) bnbban
- (c) bnbbna
- (d) babban

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440000000000000000000000000000000000000	(4) 5.
(a) 6, 42, 86 (b) 7, 42, 218	28. From the given alternative words, select the word
(c) 6, 24, 70 (d) 8, 48, 192	which cannot be formed using the letters of the
19. Which one number is wrong in the given series?	given word Given : IMPASSIONABLE
126, 98, 70, 41, 14 (a) 98 (b) 70	(a) IMPASSABLE (b) IMPOSSIBLE
(a) 96 (b) 76 (c) 126 (d) 41	(c) IMPASSIVE (d) IMPASSION
20. Arrange the following in the meaningful/logical	29. Only one meaningful word can be formed by
order	rearranging the letter of the given jumbled word.
1. Exhaust 2. Night	Find out that word.
3. Day 4. Sleep	Given: MUSPOPAPOTIH
5. Work	(a) METAMORPHIC (b) PHILANTHROPIST
(a) 1,3,5,2,4 (b) 3,5, 1,4,2	(c) HIPPOCAMPUS (d) HIPPOPOTAMUS
(c) 3, 5, 1, 2, 4 (d) 3, 5, 2, 1, 4	30. Which number is wrong in the given series?
Directions (21-24): In each of the following	1, 9, 25, 50, 81
questions, a series is given with one term missing.	(a) 1 (b) 25
Choose the correct alternative from the given ones	(c) 50 (d) 81
that will complete the series.	31. A bus leaves Delhi with half the number of women as men. A Meerut, ten men get down
21. 3, 4, 7, 11, 18, 29,?	and live women get in. Now there are equa
(a) 31 (b) 39	number of men and women. Ho many
(c) 43 (d) 47	passengers boarded the bus initially at Delhi?
22. AGMSY, CIOUA, EKQWC,? IOUAG,	(a) 36 (b) 45
KQWCI	(c) 15 (d) 30
(a) GMSYE (b) FMSYE	32. If the day before yesterday wa Sunday, what day
(c) GNSYD (d) FMYES	will it be thre days after the day after tomorrow
23. 975, 864, 753, 642,? (a) 431 (b) 314	(a) Sunday (b) Monday
(a) 431 (b) 314 (c) 531 (d) 532	(c) Wednesday (d) Saturday
24. 8, 24, 12,?18,54	Directions (33): In the following question, one
(a) 28 (b) 36	statement is given followed by two assumptions I and
(c) 46 (d) 38	II. You have to consider the statement to be true even
25. Ashok's mother was 3 times as old as Ashok 5	if it seems to be at variance from commonly known
years ago. After 5 years she will be twice as old	facts. You have to decide which of the given assumptions, if any, follow from the given statement.
as Ashok. How old is Ashok today?	
(a) 10 years (b) 15 years	33. <b>Statement:</b> Politicians become rich by the votes
(c) 20 years (d) 25 years	of the people.
26. M is the son of P. Q is the grand-daughter of 0	Assumptions:
who is the husband of P. How is M related to O?	I. People vote to make politician rich.
(a) Son (b) Daughter (c) Mother (d) Father	II. Politicians become rich by their virtue.
	(a) Only I is implicit (b) Only II is implicit
27. In a row of boys, Srinath is 7th from the left and Venkat is 12th from the right. If they interchange	(c) Both I and II are implicit www.examrace.com (d) Both I and II are not implicit
vonkar is 12 in nomine nym. In mey interchange	(a) Dott I and it are not implicit

(a) 19

(c) 33

their positions, Srinath becomes 22nd from the left. How many boys are there in the row?

(b) 31

(d) 34

18. Find out a set of numbers amongst the four sets

question. Given: (6, 30, 90)

of numbers given in the alternatives, which is the most similar to the numbers given in the

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 the seem to be at variance from commonly known facts. You have to decide whit of the given conclusions, if any, folio the given statements.

#### 34. Statements:

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

#### **Conclusions**

- I. All men are crazy.
- II. All the crazy are men.
- III. Some of the crazy are men.
- IV. Some of the crazy are women
- (a) None of the conclusions follow
- (b) All the conclusions follow
- (c) Only I, III and IV follow
- (d) Only II and III follow
- 35. If HOSPITAL is written as 32574618 in a certain code, how would POSTAL be written in that code?
  - (a) 752618
- (b) 725618
- (c) 725168
- (d) 725681
- 36. Find the missing number from the responses.
  - 173 (24)526
  - 431 (18)325
  - 253 471 (?)
  - (a) 22
- (b) 42
- (c) 30
- (d) 06
- 37. After interchanging ÷ and +, 12 and 18, which one of the following equations becomes correct?
  - (a) (90 x 18) + 18 = 60 (b) (18 +6) ÷ 12 = 2
  - (c)  $(72 = 18) \times 18 = 72$  (d)  $(12 + 6) \times 18 = 36$
- 38. If SPARK is coded as TQBSL, what will be the code for FLAME?
  - (a) GMBNF
- (b) GNBNF
- (c) GMCND
- (d) GMBMF
- 39. Find out the correct answer for the unsolved equation on the basis of the given equations.
  - 6\*5 = 91
    - 8 \* 7 = 169
    - 10\*7 = 211

then 11 \* 10 = ?

- (a) 331
- (b) 993
- (c) 678
- (d) 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 here. 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?
  - (a) 90 m
- (b) 100 m
- (c) 260 m
- (d) 140 m
- 41. In the following question, A 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
  - (a) ×
- (b) = x +
- (C)
- $(d) = + \times$
- 42. What is the number missing from the third target?

5 9 15 16 29 ?

- 89 147 49
- (a) 45
- (b) 48
- (c) 51(d) 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 of B.

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 is

- (a) DECAB
- (b) BACED
- (c) ACBDE
- (d) 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 any cubes will have paint on two sides?
  - (a) 4 (c) 12
- (b) 8

(d) 0

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- 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?
  - (a) South-west
- (b) North-west
- (c) West
- (d) North
- 46. Find out which of the diagrams given in the alternatives correctly represents the relationship stated in the question.

Sharks, Whales, Turtles.

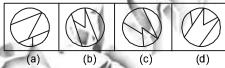
- (a) (1)
- (b) (O)
- (c) O
- (d) (D)

**Directions (47):** In this question, among the four answer figures, which figure can he formed from the cut-pieces given below in the question figure.

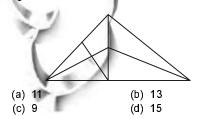
# 47. Question Figure



### **Answer Figure**

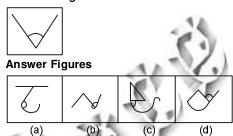


48. How many triangles are there in the following figure ?



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

### **Question Figure**

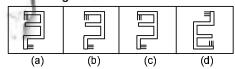


50. Which answer figure is the exact mirror image of the given question figure when the mirror is held from the right at PQ?

#### Question Figure



### **Answer Figures**



# **GENERAL AWARENESS**

- 51. A concave lens always forms an image which is
  - (a) real and erect
- (b) virtual and erect
- (c) real and inverted
- (d) virtual and inverted
- 52. A vitamin requires cobalt for its activity. The vitamin is
  - (a) Vitamin B12
- (b) Vitamin D
- (c) Vitamin B2
- (d) Vitamin A
- 53. One of the constituents of tear gas is
  - (a) Ethane
- (b) Ethanol
- (c) Ether
- (d) Chloropicrin
- 54. The modulus of rigidity is the ratio of
  - (a) longitudinal stress to longitudinal strain
  - (b) Volume stress to volume strain
  - (c) shearing stress to shearing strain

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(d) tensile stress to tensile strain

55. The propagation of sound waves in a gas involves	65. Who was the founder of the 'Servants of India Society'?
(a) adiabatic compression and rarefaction     (b) isothermal compression and rarefaction	(a) G.K. Gokhale (b) M.G. Ranade (c) B.G. Tilak (d) Bipin Chandra Pal
(c) isochoric compression and rarefaction	66. The term 'Caste' was derived from
(d) isobaric compression and rarefaction 56. An atomic clock is based on transitions in	(a) Portuguese (b) Dutch (c) German (d) English
(a) Sodium (b) Caesium	67. The term "Greater India" denotes
(c) Magnesium (d) Aluminium	(a) Political unity (b) Cultural unity
<ol> <li>Plasma membrane in eukaryotic cells is made up of</li> </ol>	(c) Religious unity (d) Social unity 68. Formalised system of trading agreements with
(a) Phospholipid (b) Lipoprotein	groups of countries is known as
(c) Phospholipo-protein(d) Phospho-protein	(a) Trading blocks (b) Trade ventures (c) Trade partners (d) Trade organizations
58. Which one of the following is also called the 'power plants' of the cell?	69. Mahatma Gandhi was profoundly influenced by
(a) Golgi body (b) Mitochondrion	the writings of
(c) R bosome (d) Lysosome 59. What is the chemical name of vinegar?	(a) Bernard Shaw (b) Karl Marx (c) Lenin (d) Leo Tolstoy
(a) Citric acid (b) Acetic acid	70. Seismic sea waves which approach the coasts
(c) Pyruvic acid (d) Malic acid	at greater force are known as:
60. Which of the following is not a property of heavy water'?	(a) Tides (b) Tsunami (c) Current (d) Cyclone
(a) Boiling point of heavy water is lower than that	
or ordinary water (b) Density of heavy water is higher than that of	winds are called:
ordinary water	(a) Playas (b) Yardang (c) Ventifacts (d) Sand dunes
(c) Freezing point of heavy water is higher than	72. The land of maximum biodiversity is
that of ordinary water (d) It produces corrosion	(a) Tropical (b) Temperate (c) Monsoonal (d) Equatorial
61. In which of the following processes is energy	73. If input frequency of a full wave rectifier be n,
released ? (a) Respiration (b) Photosynthesis	then output frequency would be:
(c) Ingestion (d) Absorption	(a) $\frac{n}{2}$ (b) n (c) $\frac{3n}{2}$ (d) 2n
62. Animals living in the three trunks are known as	· · · · · · · · · · · · · · · · · · ·
(a) Arboreal (b) Volant (c) Amphibious (d) Aquatic	74. Heat transfer horizontally within the atmosphere is called
63. Arrange the following in chronological order:	(a) Conduction (b) Convection
1. Tughlaqs	(c) Absorption (d) Advection  75. Indian Standard Time relates to
5. Khiljis	(a) 75.5° E longitude
(a) 1, 2, 3, 4, 5 (b) 5, 4, 3, 2, 1 (d) 4, 5, 1, 3, 2	(b) 82.5° E longitude
(c) 2, 4, 5, 3, 1 (d) 4, 5, 1, 3, 2 64. The book titled 'The Indian War of	(c) 90.5° E longitude (d) 0° longitude 76. Who is rightly called the "Father of Local Self
Independence' was written by	Government" in India ?
(a) Krishna Verma (b) Madame Carna (c) B.G. Tilak (d) V.D. Savarkar	(a) Lord Mayo (b) Lord Ripon www.examrace.com (c) Lord Curzon (d) Lord Clive
(4) 1.5. Garantal	(a) Lord Gallerii (a) Lord Gilvo

77. The Directive Principles of State Policy was 88. Who among the following has been honoured adopted from the with the prestigious Dadasaheb Phake Award (a) British Constitution (b) Swiss Constitution for 2007? (a) Yash Chopra (c) U.S. Constitution (d) Irish Constitution (b) Ustsad Amjad Ali Khan 78. Which is the second nearest star to the Earth (c) Manna Dev after the Sun? (d) A. Nageshwara Rao (a) Vega (b) Sirius (c) Proxima Centaur (d) Alpha Centauri 89. An Intelligent terminal (a) has a microprocessor, but cannot be 79. The two forms of democracy are programmed by the user (a) Parliamentary and Presidential (b) can process small data processing jobs, (b) Direct and Indirect with the use of a large CPU (c) Monarchical and Republican (c) interacts with the user in English (d) Parliamentary and King (d) cannot take data from the user 80. Which is an extra-Constitutional body? 90. Which one of the following is not a method of (a) Language Commission estimating National Income? (b) Planning Commission (a) Expenditure method (c) Election Commission (b) Product method (d) Finance Commission (c) Matrix method 81. The Prime Minister of India is (d) Income method (a) Elected (b) Appointed 91. The monetary policy is India is formulated by (c) Nominated (d) Selected (a) Central Government 82. Which is not an All India Service? (b) Industrial Financial Corporation of India (a) Indian Administration Service (c) Reserve Bank of India (b) Indian Police Service (d) Industrial Development Bank of India (c) Indian Foreign Service 92. A short-term government security paper is called (d) Indian Forest Service (a) Share (b) Debenture 83. The forest in Sunderban is called (c) Mutual fund (d) Treasury bill (a) Scrub jungle (b) Mangrove 93. WTO basically promotes (d) Tundra (c) Deciduous forest (a) Financial support (b) Global peace 84. Noise is measured in (d) Multilateral trade (c) Unilateral trade (a) Watt (b) REM 94. Under which market condition do firms have (d) Decibel (c) Centigrade excess capacity? 85. Who among the following captured his third (a) Perfect competition consecutive National Billiards title in the year (b) Monopolistic competition 2009 (c) Duopoly (d) Oligopoly (a) Pankaj Advani (b) DevendraJoshi 95. Price theory is also known as (c) Geet Sethi (d) Dhruv Sitawala (a) Macro Economics 86. The Messenger Satellite launched by NASA is (b) Development Economics to study (c) Public Economics (a) Mercury (b) Venus (d) Micro Economics (c) Saturn (d) Jupiter 96. At present, India is following 87. What was the name of the ship that sank near (a) Fixed exchange rate the Paradip Port in September, 2009 causing

an oil spill?

(a) Red Rose

(c) White Rose

(b) Black Rose

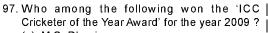
(d) Green Rose

(b) Floating exchange rate

(c) Pegged up exchange rate

(d) Pegged down exchange rate

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- (a) M.S. Dhoni
- (b) Gautam Gambhir
- (c) Mitchell Johnson
- (d) Tillakaratne Dilshan
- 98. The bats can fly in the dark because
  - (a) they can see the objects in darkness
  - (b) they have weak legs and are likely to be attacked by predators
  - (c) they generate flashes of light
  - (d) they generate ultrasonic sound waves
- 99. What changes will happen to a bowl of ice and water kept at exactly zero degree Celsius ?
  - (a) All ice will melt
  - (b) All water will become ice
  - (c) No change will happen
  - (d) Only some ice will melt
- 100. National Income is the
  - (a) Net National Product at market price
  - (b) Net National Product at factor cost
  - (c) Net Domestic Product at market price
  - (d) Net domestic Product at factor cost

- 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
  - (a) 48
- (b) 36
- (c) 24
- (d) 16
- 102. The greatest number, which when subtracted from 5834, gives a number exactly divis ble by each of 20, 28, 32 and 35, is
  - (a) 1120
- (b) 4714
- (c) 5200
- (d) 5600
- 103. The ninth term of the sequence 0, 3, 8, 15, 24, 35...is

  - (a) 63
- (b) 70
- (c) 80
- (d) 99
- 0.125 + 0.027 $104. \frac{0.25 - 0.15 + 0.09}{0.25 - 0.15 + 0.09}$ is equal to
  - (a) 0.3
- (c) 0.8
- (d) 0.9
- 105.The sum of the series (1 + 0.6 + 0.06 + 0.006 + 0.0006 + ....) is

(a) 
$$1\frac{2}{3}$$
 (b)  $1\frac{1}{3}$  (c)  $2\frac{1}{3}$  (d)  $2\frac{2}{3}$ 

 $106.\,\sqrt{\frac{0.009\!\times\!0.036\!\times\!0.016\!\times\!0.08}{0.002\!\times\!0.0008\!\times\!0.0002}}$ 

- (b) 36
- (c) 38 (d) 39 107. A number, when divided by 114, leaves
  - remainder 21. If the same number is divided by 19, then the remainder will be
  - (a) 1
- (b) 2
- (c) 7
- (d)
- 108. The square root of 0.09 is
  - (a) 0.30
- (b) 0.03

- 109. The number 0. 121212.... in the P form  $rac{
  ho}{\sigma}$  is
- then x is equal to
  - (a) -2
- (b) 2
- (c) -1
- (d) 1
- 111. Two numbers are in the ratio 3: 4. Their L.C.M. is 84. The greater number is
  - (a) 21
- (c) 28
- (d) 84
- 112. A drum of kerosene is 3/4 full. When 30 litres of kerosene is 7 drawn from it, it remains 12 full. The capacity of the drum is
  - (a) 120 l
- (b) 135 l
- (c) 150 l
- (d) 180 l
- 113. By what least number should 675 be multiplied so as to obtain a perfect cube number?
  - (a) 3
- (b) 5
- (c) 24

114. 
$$\left(1\frac{1}{2}+11\frac{1}{2}+111\frac{1}{2}+1111\frac{1}{2}\right)$$
 is equal to

- (a) 1236 (b)  $1234\frac{1}{2}$  (c) 618
- (d) 617 www.examrace.com

115. 0.001 is equal to	(a) Rs. 2,600 (b) Rs. 2,700 (c) Rs. 2,800 (d) Rs. 3,000
1 1 1 1	1 125. By selling an article, a man makes a profit of
(a) $\frac{1}{1000}$ (b) $\frac{1}{999}$ (c) $\frac{1}{99}$ (d) $\frac{1}{9}$	25% of its selling price. His profit per cent is
	(a) 20 (b) 25
116. $\frac{4.41 \times 0.16}{2.1 \times 1.6 \times 0.21}$ is simplified to	2 1
2.1×1.6×0.21 is simplified to	(c) $16\frac{2}{3}$ (d) $33\frac{1}{3}$
(a) 1 (b) 0.1	
(c) 0.01 (d) 10	126. If A's income is 50% less than that of B's, then
117. If a and b are two odd positive integers, by which	
of the follow-ing integers is $(a^4 - b^4)$ always	(a) 125 (b) 100
divisible ? (a) 3	(c) 75 (d) 50
(a) 3 (b) 6 (c) 8 (d) 12	127.1.14 expressed as a per cent of 1.9 is
118. If $a = 11$ and $b = 9$ , then the value of	(-) CO/
	(c) 60% (d) 90%
$\left(\frac{a^2+b^2+ab}{a^3-b^3}\right) \text{ is }$	128. Two natural numbers are in the ratio 3:5 and
$\left(\begin{array}{cc} a^3-b^3 \end{array}\right)^{15}$	their product is 2160. The smaller of the numbers
(a) 2 (b) 2	is (a) 24
(c) 20 (d) 20	(a) 36 (b) 24 (c) 18 (d) 12
119. $\frac{256 \times 256 - 144 \times 144}{112}$ is equal to	129. If 60% of A = 4 of B, then A is
119. 112 is equal to	(a) 9:20 (b) 20:9
(a) 420 (b) 400	(c) 4:5 (d) 5:4
(c) 360 (d) 320	130. Two successive price increase of 10% and 10%
120. If a and b be positive integers such that $a^2 - b^2$	of an article are equivalent to a single price
= 19, then the value of a is	increase of
(a) 19 (b) 20	(a) 19% (b) 20%
(c) 9 (d) 10	(c) 21% (d) 22%
121. If the ratio of cost price and selling price of an	$\sqrt{3+x}+\sqrt{3-x}$
article be as 10 : 11, the percentage of profit is	131. $\frac{\sqrt{3+x} + \sqrt{3-x}}{\sqrt{3+x} - \sqrt{3-x}} = 2$ then x is equal to
(a) 8 (b) 10 (c) 11 (d) 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	12 0 7 0
(a) Rs. 40 (b) Rs. 35	132. An equilateral triangle of side cm has its corners
(c) Rs. 32 (d) Rs. 30	cut off to form a regular hexagon. Area (in cm2
123. A shopkeeper earns a profit of 12% on selling a	of this regular hexagon will be
book at 10% discount on the printed price. The	
ratio of the cost price and the printed price of	2
the book is (a) 45 : 56 (b) 45 : 51	133. The length (in metres) of the longest rod that
(c) 47:56 (d) 47:51	can he put in a room of dimensions 10 m x 10 m
124. By selling a bicycle for Rs. 2,850, a shopkeeper	5m is
gains 14%. If the profit is reduced to 8%, then	- F
the selling price will be	$(a) 15\sqrt{3} (b) 13 (c) 10\sqrt{2} (d) \frac{1}{2}$

134. If Rs. 1000 is divided between A and B in the (a) Rs. 11,600 (b) Rs. 11,700 ratio 3: 2, then A will receive (c) Rs. 16,100 (d) Rs. 17,100 (b) Rs. 500 (a) Rs. 400 144. If A and B together can complete a piece of work (d) Rs. 800 (c) Rs. 600 in 15 days and B alone in 20 days, in how many 135. What must be added to each term of the ratio 7 days can A alone complete the work? (b) 45 : 11, so as to make it equal to 3:4? (a) 60 (a) 8 (b) 7.5 (c) 6.5(c) 40(d) 30 136. A sum of money at compound interest doubles | 145. By walking at 3/4 of his usual speed, a man reaches his office 20 minutes later than his usual itself in 15 years. It will become eight times of it-self in time. The usual time taken by him to reach his (a) 45 years (b) 48 years office is (c) 54 years (d) 60 years (a) 75 minutes (b) 60 minutes (c) 40 minutes (d) 30 minutes 137. Buses start from a bus terminal with a speed of 20 km/hr at in-tervals tervals of 10 minutes. What 146. A can complete a piece of work in 18 days, B in 20 days and C in 30 days. B and C together is the speed of a man coming from the opposite direction towards the bus terminal if he meets start the work and are forced to leave after 2 the buses at intervals of 8 minutes ? days. The time taken by A alone to complete the (a) 3 km/hr (b) 4 km/hr remaining work is (d) 7 km/hr (a) 10 days (c) 5 km/hr (b) 12 days (c) 15 days (d) 16 days 138. If the circumference of a circle is decreased by 50% then the per-centage of decrease in its area 1147. A train, 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 (a) 25 (b) 50 (c) 60 (a) 30 km/h (d) 75 (b) 32 km/h (c) 32 8 km/h (d) 358 km/h 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 Directions (148-150): The pie chart, given here, compound interest? represents the number of valid votes obtained by four (a) 5 (b) 5.5 students who contested election for school (c) 6 (d) 6.5 leadership. The total number of valid votes polled was 140. What annual payment will discharge a debt of 720. Rs. 6,450 due in 4 years at 5% per annum simple interest? (a) Rs. 1,400 (b) Rs. 1,500 based on it.

(d) Rs. 1,600

(b) 51

(d) 49.5

(b) 11 years

(d) 10 years

141. The average of the first 100 positive integers is

142. In a family, the average age of a father and a

143. If 5 men or 7 women can earn Rs. 5,250 per day, how much would 7 men and 13 women earn

What is the age of the son?

mother is 35 years. The average age of the father, mother and their only son is 27 years.

(c) Rs. 1,550

(a) 100

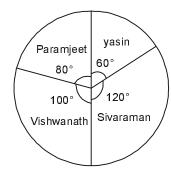
(c) 50.5

(a) 12 years

per day?

(c) 10.5 years

Observe the chart and answer the questions



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- 148. What was the minimum number of votes | 159. He went sea alone. obtained by any candidate?
  - (a) 100
- (b) 110
- (c) 120
- (d) 130
- 149. What was the winner?
  - (a) Sivaraman
- (b) Paramjeet
- (c) Yasin (d) Vishwan ath 150. By how many votes did the winner defeat his
  - nearest rival? (a) 40
- (b) 45
- (c) 48
- (d) 50

#### ENGLISH COMPREHESION

Directions (151-155): In the following questions, some of the sen-tences 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 (d) i.e., No error.

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

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
  - (a) was it?
- (b) wasn't it?
- (c) is it ?
- (d) isn't it?
- 157. Like humans, zoo animals must have a dentist their teeth
  - (a) fill
- (b) filled
- filling (c)
- (d) to be filled
- 158. It was very kind of you to do the washing-up, but you it.
  - (a) didn't have to do (b) hadn't to do
  - (c) mightn't have done (d) mustn't have done

- - (a) in (c) into
- (b) to (d) on
- 160. The.....of our civilization from an agricultural society to today's complex industrial world was accompanied by war.
  - (a) adjustment
- (b) migration
- (c) route
- (d) metamorphosis

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

- 161. FLORID
  - (a) Weak
- (b) Pale
- (c) Monotonous
- (d) Ugly
- 162. VERITY
  - (a) Sanctity
- (b) Reverence
- (c) Falsehood
- 163. PERSPICUITY
- (d) Rarity
- (a) Vagueness (c) Unfairness
- (b) Dullness (d) Unwillingness
- 164. FERVENT
  - (a) In excitable (c) Dispassionate
- (b) Enduring (d) Subdued
- 165. MEANDERING
  - (a) Sliding (c) Strained
- (b) Sloping
- (d) 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

- (a) Luxury-loving
- (b) Lovely
- (c) Rich
- (d) Abundant
- 167. CANTANKEROUS
  - (a) Cancerous
- - (c) Quarrelsome
- (b) Ferocious (d) Fissiparous
- 168. ONUS
  - (a) Sadness
- (b) Happiness
- (c) Respons bility
- (d) Criticism
- 169. DERISION
  - (a) Humiliation
- (b) Embarrassment (d) Condemnation
- (c) Ridicule 170. TRITE
  - (a) Commonplace
- (b) Clever
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- (c) Brief
- (d) Impudent

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

- 171. Obviously he isn't cut up to be, good teacher.
  - (a) cut out
- (b) cut in
- (c) cut for
- (d) No improvement
- 172. Power got with money is the most craved for today.
  - (a) sought after
- (b) wished for
- (c) welcomed for
- (d) No improvement
- 173. The brown shirt wants washing.
  - (a) has to wash
- (b) is in need of a wash
- (c) requires awash
- (d) No improvement
- 174. You are asked to copy this letter word by word.
  - (a) word for word
- (b) word with word
- (c) word to word
- (d) No improvement
- 175. The weak man is a slave to his sensuous pleasures.
  - (a) sensory
- (b) sensual
- (c) secondary
- (d) 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
  - (a) Subterfuge
- (b) Manoeuvre
- (c) Stratagem
- (d) Complicity
- 177. Impossible to describe
  - (b) Ineffable
- (a) Miraculous
- (D)
- (c) Stupendous
- (d) Appalling
- 178. One who criticises popular beliefs which he thinks is mistaken or unwise
  - (a) Philistine
- (b) Iconoclast
- (c) Imposter
- (d) Cannibal
- 179. Detaining and confining someone
  - (a) Interruption
- (b) Interrogation
- (c) Interment
- (d) Internment
- 180. Science of the races of mankind
  - (a) Genealogy
- (b) Epistemology
- (c) Ethnology
- (d) 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. (a) collaborate
- (b) comemorate
- (c) colate
- (d) chocolate(b) clairvoyant
- 182. (a) circuiteous (c) chivelery
- (d) cavalcade
- 183. (a) severety
- (b) sovereignity
- (c) superiorty
- (d) serenity
- 184. (a) cummulative (c) accummulative
- (b) comemmorative(d) accommodative
- 185. (a) benidiction
- (b) besmerch
- (c) beneficient
- (d) benevolence

Directions (186-190): In the following questions, the 1 stand 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.

- 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.
  - As the Britishers left we had a complexity of opinions regarding English
  - (a) PQRS(b) QPSR (c) PQSR (d) 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.
  - (a) PSQR(b) RPSQ (c) PSRQ (d) SPRQ www.examrace.com

- young moral values in life.
  - P. Many children take advantage of their parents' busy schedule.
  - Q. This results in children's ignorance of social
  - R. The reason behind it is that parents are quite busy nowadays.
  - S. Nowadays parents spend very meagre time with children.
  - 6. As such, the society is going away from the value system.
  - (a) SRPQ(b) PQRS (c) SQRP (d) 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.
  - 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.
  - (a) SRQP
- (b) RQPŚ (d) PRSQ
- (c) QRSP
- 190. 1. This was an important day for 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. 6. Finally he picked up the gun he had cleaned so carefully the day before.
  - (a) PQRS(b) QPRS (c) PRSQ (d) 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.

- 188. 1. It is the responsibility of parents to teach the | 191. They have made a film based on this novel.
  - (a) A film was based on this novel and made.
  - (b) A film have been made based . on, this novel.
  - (c) A film, based on this novel, has been made
  - (d) 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.
    - (a) I couldn't be moved to the hospital and was operated on at home by the doctor.
    - (b) I couldn't be moved to the hospital and I had to be operated on at home.
    - (c) I couldn't be moved to the hospital and I was operated at home by the doctor.
    - (d) 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?
    - (a) Why you were deprived of the membership?
    - (b) Why were you deprived of his membership by him?
    - (c) Why was he deprived of his membership
    - (d) Why were you deprived of your membership by him?
  - 194. The news has been brought to us by him.
    - (a) He brought us the news.
    - (b) He has brought us the news.
    - (c) He was brought the news to us.
    - (d) We brought the news to him.
    - 195. Not a word was spoken by the criminal in self-defence.
    - (a) The criminal spoke not a word in selfdefence.
    - The criminal in self-defence spoke no word.
    - The criminal did not speak a word in selfdefence.
    - (d) The criminal spoke in self-defence not aword.

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. Swoww.examrace.com special dialects or jargons are necessary in

technical discussion of any kind. Being universally | 197. The writer of this article is 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
  - (a) may become part of common speech
  - (b) never last long
  - (c) should resemble mathematical formula
  - (d) should be confined to scientific fields

- - (a) a scientist
- (b) a politician
- (c) a linguist
- (d) a businessman
- 198. This passage is primarily concerned with
  - (a) various occupations and professions
  - (b) technical terminology
  - (c) scientific undertakings
  - (d) a new language
- 199. It is true that
  - (a) various professions and occupations often interchange words
  - (b) there is always a non-technical word that may be substituted for the technical word
  - (c) the average man often uses in his own vocabulary what was once technical language not meant for him
  - (d) 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
    - (a) Farming
- (b) Fishing
- (c) Sports
- (d) Government

					ANSV	<b>VERS</b>				
	4 (-)	O (-)	0 (-)	4 (-)	5 (-)	0 (1-)	7 (4)	0 (-)	0 (4)	40 (-)
	1. (c)	2. (a)	3. (a)	4. (c)	5. (c)	6. (b)	7. (d)	8. (b)	9. (d)	10. (c)
	11. (c)	12. (b)	13. (d)	14. (c)	15. (d)	16. (c)	17. (b)	18. (d)	19. (d)	20. (c)
	21. (d)	22. (a)	23. (c)	24. (b)	25. (b)	26. (a)	27. (c)	28. (c)	29. (d)	30. (c)
	31. (b)	32. (a)	33. (d)	34. (c)	35. (b)	36. (a)	37. (b)	38. (a)	39. (a)	40. (b)
	41. ()	42. (b)	43. (a)	44. (b)	45. (c)	46. (c)	47. (c)	48. (b)	49. (d)	50. (c)
	<b>51</b> . (b)	52. (a)	53. (d)	54. (b)	55. (a)	56. (b)	57. (a)	58. (b)	59. (b)	60. (a)
	61. (a)	62. (a)	63. (d)	64. (d)	65. (a)	66. (a)	67. (b)	68. (a)	69. (d)	70. (b)
	71. (b)	72. (a)	73. (d)	74. (b)	75. (b)	76. (b)	77. (d)	78. (c)	79. (a)	80. (b)
	<b>81</b> . (b)	82. (c)	83. (b)	84. (d)	85. (a)	86. (a)	87. (a)	88. (c)	89. (a)	90. (c)
	91. (c)	92. (d)	93. (d)	94. (b)	95. (d)	96. (b)	97. (c)	98. (d)	99. (c)	100. (b)
1	01. (d)	102. (b)	103. (c)	104. (c)	105 (a)	106. (b)	107. (b)	108. (a)	109. (c)	110. (c)
•	111. (c)	112. (d)	113. (b)	114. (a)	115. (b)	116. (a)	117. (c)	118. (a)	119. (b)	120. (d)
1	21. (b)	122. (c)	123. (a)	124. (b)	125. (d)	126. (b)	127. (c)	128. (a)	129. (d)	130. (c)
1	31. (b)	132. (c)	133. (b)	134. (c)	135 (d)	136. (a)	137. (c)	138. (b)	139. (a)	140. (b)
1	41. (c)	142. (b)	143. (d)	144. (a)	145 (b)	146. (c)	147. (d)	148. (c)	149. (a)	150. (a)
1	51. (c)	152. (a)	153. (b)	154. (c)	155 (d)	156. (a)	157. (a)	158. (d)	159. (b)	160. (d)
1	61. (b)	162. (c)	163. (a)	164. (c)	165 (d)	166. (d)	167. (c)	168. (c)	169. (c)	170. (a)
1	71. (a)	172. (d)	173. (c)	174. (a)	175. (b)	176. (b)	177. (b)	178. (b)	179. (d)	180. (c)
1	81. (a)	182. (b)	183. (d)	184. (d)	185 (d)	186. (b)	187. (d)	188. (a)	189. (a)	190. (6)//
1	91. (c)	192. (a)	193. (d)	194. (b)	195. (c)	196. (c)	197. (c)	198. (b)	199. (c)	200. (d)