SSC COMBINED GRADUATE LEVEL TIER-1 EXAM

(2) CMAL

13. (1) ZKXJ

FIRST SITTING

Exam Held On : 16-05-2010

21. 3, 4, 7, 11, 18, 29. 2

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 : ? (2) RTZV TVZX (4) RTVZ (3) TVXZ 2. $\frac{M}{AC}$; $\frac{N}{AD}$; $\frac{O}{AE}$;? 12 (1) $\frac{P}{AF}$ g (2)AB (3) AC (4) 3. 5:27::9:? (2) 81 (1) 83 (3) 36 (4) 18 4. 6:11::11:? (2) 17 (1) 6(4) 30(3) 20 5. ABE : 8 : : KLO : ? (1) 37 (2) 39 (4) 36 (3) 38 Sty : Pig : : Byre : ? (1) Eagle (2) Cow (3) Tiger (4) Hen 7. Patrol : Security : : Insurance : ? (2) Policy Money (3) Savings (4) Risk 8. ADBC : EHFG : ILJK ? (2) MPNO MOPN (4) MPON (3) ORPQ Directions (9-14) : In each of the following questions, select the one which is different from the other three responses. (2) 144, 169 9. (1) 25, 36 (3) 100, 121 (4) 9.64 (2) Light 10. (1) Heat (4) Electricity (3) Bulb 11. (1) Wave (2) Current (3) Tide (4) Storm (2) Y 12. (1) X

(4) D

(3) H

(3) TGRF	(4) FRTK
14. (1) ABJNM	(2) QRTUZ
(3) IXYOQ	(4) WFGOP
15. Arrange the fol	lowing words ac-
cording to the d	lictionary?
1. Inventory	2. Involuntary
3. Invisible	4. Invariable
5. Investigate	
(1) 4, 2, 5, 3, 1	(2) 4, 5, 1, 3, 2
	3 (4) 4, 1, 5, 3 2
16. Find the next	two letters in the
given series.	De la gran de
BCEHL??	1 B.
(1) XY	(2) MN
(3) QW	(4) OP
17. Which one set	of letters when se-
quentially place	d at the gaps in the
	ies shall complete
it? aba_n	_bbabbn
(1) abnabb	(2) bnbban
(3) bnbbna	(4) babban
10001.0	f numbers amongst
	numbers given in
the alternatives	s, which is the most
similar to the n	umbers given in the
question.	1 Carlothan an Carl
Given : 16, 30,	
	(2) 7. 42. 218
	(4) 8, 48, 192
	nber is wrong in the
given series?	
126, 98, 70	
(1) 98	(2) 70
(3) 126	(4) 41
20. Arrange the fol ingful/logical	lowing in the mean-
100 100 100 100 100 100	2. Night
1. Exhaust	4. Sleep
3. Day	4. Sieep
5. Work	4 (2) 3, 5, 1, 4, 2
	4 (4) 3, 5, 2, 1, 4
	1-24) : In each of
	ions, a series is given
	ing. Choose the cor-
	n the given ones that
will complete the	scries.

(2) 39(1) 31(4) 47 (3) 4322. AGMSY, CIOUA, EKQWC. IOUAG. KOWCI (2) FMSYE GMSYE (4) FMYES (3) GNSYD 23. 975, 864, 753, 642, ___? (2) 314 (1) 431 (4) 532 (3) 531 24. 8, 24, 12, _? _, 18, 54 (2) 36 (1) 28 (4) 38 (3) 46 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 ? (2) 15 years 10 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? (2) Daughter Son (4) Father (3) Mother 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? (2) 31(1) 19 (3) 33 (4).3428. 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 METAMORPHIC (2) PHILANTHROPIST (3) HIPPOCAMPUS (4) HIPPOPOTAMUS

- 30. Which number is wrong in the 1 35. If HOSBITAL is written as 42. given series ?
 - i, 9, 25, 50, 81 (1) - 1(2) 25
 - (4) 81 (3) 50
- 31. A bus leaves Delhi with that 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? 1.12
 - (2) 45 (1) 36 (3) 15 (4) 30
- 32. If the day before yesterday was Sunday, what day will it be three days after the day after tomorrow? (2) Monday (1) Sunday
 - (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 rích.
- 11. Politicians become rich by their virtue.
- 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 :

- 1. All men are crazy.
- 11. All the crazy are men.
- III. Some of the crazy are men.

(24)

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

32574618 in a certain code, how, would BOSTAL bewritten in that code? (1) 752618 (3) 725188 785651 36. Find the missing number from the given responses 173 (24) 526 431 (18) 325 253 (?) 471 ţ (1) 22 (2) 42 arweijot (4), 06 (3) 30 37. After interchanging + and +, 12 and 18, which one of the following equations becomes correct ? . (1) $(90 \times 18) + 18 = 60$ (2) (18 + 6) + 12 = 2

- (3) (72 +18) × 18 = 72
- $(4) (12 + 6) \times 18 = 36$
- 38. If SPARK is coded as TQBSL, what will be the code for FLAME? (2) GNBNF GMBNF (4) GMBMF (3) GMCND 39. Find out the correct answer for the

unsolved equation on the basis of the given equations. YOUNT -If 6 • 5 = 91

 $8 \cdot 7 = 169$

•		-	10		
5		- 142	÷.	- 22	
٢.	10			0	

- $10 \cdot 7 = 211$ citisticthen 11 • 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 100 metres to his north before meeting his father in a street. How far did the son meet his father from the starting point?
 - (2) 100 m (1) 90.m (4) 140 m
 - (3) 260 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 guestion as a correct equation.

24 4 4 4 5 4 4 19.1 $(1) \times + =$ (2) = × +

(4) = + × (3) + × = ∞ ∞13 deg

What is the number missing from the third target?

IS PO	15
16 29	?
49 89	147
11) 45	(2)

Ê

1) 45	(2) 48
3) 51	(4) 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 ls.

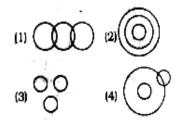
(1) DECAB	(2) BACED
(3) ACBDE	(4) ABEDC

- 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 ?
 - (2) 8(1) 4
 - (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?

 South-west 	(2) North-west
(3) West	(4) North

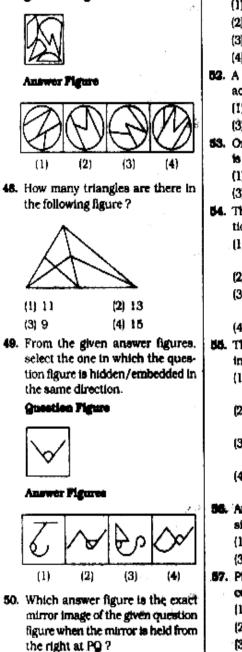
46. Find out which of the diagrams given in the alternatives correctly represents the relationship stated in the question.

Sharks, Whales, Turtles,



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

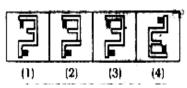




Question figure



Answer figures



	PART-B	60. Which of the following is not a property of heavy water ?		
	A concave lens always forms an	(1) Boiling point of heavy water is lower than that or ordinary		
	image which is	water (2) Density of heavy water is		
	(1) real and erect		higher than that of ordinary	
	(2) virtual and erect		water	
	(3) real and inverted		(3) Freezing point of heavy water	
	(4) virtual and inverted		is higher than that of ordinary	
62.	A vitamin requires cobait for its		water	
	activity. The vitamin is		(4) It produces corrosion	
	(I) Vitamin B ₁₂ (2) Vitamin D	61.	In which of the following processes	
	(3) Vitamin B ₂ (4) Vitamin A		is energy released ?	
53.	One of the constituents of tear gas		(1) Respiration	
			(2) Photosynthesis	
	(1) Ethane (2) Ethanol		(3) Ingestion	
	(3) Ether (4) Chloropicrin		(4) Absorption	
D4.	The modulus of rigidity is the ra- tio of	63.	Animals living in the three trunks are known as	
	(1) iongitudinal stress to longitu-		(1) Arboreal (2) Volant	
	dinal strain		(3) Amphibious (4) Aquatic	
	(2) Volume stress to volume strain	63.	Arrange the following in chrono-	
	(3) shearing stress to shearing strain		logical order :	
	(4) tensile stress to tensile strain		1. Tughlaqs 2. Lodis 3. Salvids 4. Ilbari Turks	
H.H.	The propagation of sound waves		······	
	in a gas involves		5. Khiljis (1) 1, 2, 3, 4, 5 (2) 5, 4, 3, 2, 1	
	(1) adiabatic compression and rar-		(3) 2, 4, 5, 3, 1 (4) 4, 5, 1, 3, 2	
	efaction	64	The book titled The Indian War of	
	(2) isothermal compression and		Independence' was written by	
	rarefaction		(1) Krishna Verma	
	(3) isochoric compression and rar- efaction		(2) Madame Cama	
	(4) isobaric compression and rar-	l	(3) B.G. Tilak	
	efaction		(4) V.D. Savarkar	
56.	An atomic clock is based on tran-	65.	Who was the founder of the Ser	
	sitions in		vants of India Society'?	
	(1) Sodium (2) Caesium		(1) G.K. Gokhale	
	(3) Magnesium (4) Aluminium		(2) M.G. Ranade (3) B.G. Tilak	
.67.	Plasma membrane in eukaryotic	· · ,	(4) Bipin Chandra Pal	
	cells is made up of	66	The term 'Caste' was derived from	
	(1) Phospholipid		(1) Portuguese (2) Dutch	
	(2) Lipoprotein		(3) German (4) English	
	(3) Phospholipo-protein	67.	The term "Greater India" denotes	
	 (4) Phospho-protein Which one of the following is also: 		(1) Political unity	
	called the 'power plants' of the		(2) Cultural unity	
	cell?		(3) Religious unity	
	(1) Golgi body		(4) Social unity	
ļ	(2) Mitochondrian	68.	Formalised system of trading	
	(3) Ribbeome		agreements with groups of coun-	
	(4) Lysosome		tries is known as	
59.	What is the chemical name of vin-		 Trading blocks 	
1	egar?		(2) Trade ventures	
1	(1) Citric ecid (2) Acetic acid		(3) Trade partners	
1.4	(3) Pyruvic acid (4) Malic acid		(4) Trade organisations	

69. Mahatma Gandhi was profoundly influenced by the writings of Bernard Shaw (2) Karl Marx (3) Lenin (4) Leo Tolstov 70. Seismic sea waves which approach the coasts at greater force are known as Tides (2) Tsunami (3) Current (4) Cyclone 71. Depression formed due to deflating action of winds are called Playas (2) Yardang (3) Ventifacts (4) Sand dunes 72. The land of maximum biodiversity is 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 (3) $\frac{3n}{2}$ (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 spill? (3) Lord Curzon (4) Lord Clive 77. The Directive Principles of State Policy was adopted from the 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 ? (1) Vega (2) Sirius (3) Proxima Centauri (4) Alpha Centauri not be programmed by the user

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 (ω) (3) Election Commission 82 (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 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 -10 (1) Watt (2) REM (3) Centigrade (4) Decibel 85. Who among the following captured his third consecutive National Billiards title in the year 2009? Pankaj Advani (2) Devendra Joshi (3) Geet Sethi (4) Dhruy Sitawala 86. The Messenger Satellite launched by NASA is to study 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 Red Rose (2) Black Rose (3) White Rose (4) Green Rose 88. Who among the following has been honoured with the prestigious Dadasaheb Phalke Award for 2007? (1) Yash Chopra (2) Ustsad Amjad Ali Khan (2) (3) Manna Dey (4) A. Nageshwara Rao PA89. An Intelligent terminal (1) has a microprocessor, but can-

(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 90. Which one of the following is not a method of estimating National Income? 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) Mutualfund (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 ? Perfect competition (2) Monopolistic competition (3) Duopoly (4) Oligopoly na digam 95. Price theory is also known as (1) Macro Economics (2) Development Economics (3) Public Economics (4) Micro Economics At present, India is following (1) Fixed exchange rate (2) Floating exchange rate (3) Pegged up exchange rate (4) Pegged down exchange rate 97. Who among the following won the 'ICC Cricketer of the Year Award' for the year 2009? 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	0.00
likely to be attacked by preda-	• (5
tors	107. A
(3) they generate flashes of light	le
(4) they generate ultrasonic sound	n
waves	ti
99. What changes will happen to a	0
bowl of ice and water kept at ex-	(3
actly zero degree Celsius ?	108. T
(1) All ice will melt	0
(2) All water will become ice	(8
(3) No change will happen	109. T
(4) Only some ice will melt	100. 1
(4) Only some ice will merc.	
	fe
 Net National Product at mar- ket price 	
(2) Net National Product at factor	
(2) Net National Froduct at factor	
(3) Net Domestic Product at mar-	
ket price	6
(4) Net domestic Product at factor	
cost	110. H
PART-C	it
NUMERICAL APTITUDE	6
	6
101. The H.C.F. and L.C.M. of two	ні. т
numbers are 8 and 48 respec-	8
tively. If one of the numbers is	8
24, then the other number is	6
(1) 48 (2) 36	
(3) 24 (4) 16	112. A
102. The greatest number, which	
when subtracted from 5834, gives a number exactly divisible	v
by each of 20, 28, 32 and 35, is	
(1) 1120 (2) 4714	
(3) 5200 (4) 5600	. in a
103. The ninth term of the sequence	1.1.1
0, 3, 8, 15, 24, 35, is	
(1) 63 (2) 70	113 E
(3) 80 (4) 99	6
104. $\frac{0.125 + 0.027}{0.05 - 0.15 - 0.00}$ is equal to	l i
104. $\frac{0.125 + 0.027}{0.25 - 0.15 + 0.09}$ is equal to	
(1) 0.3 (2) 0.5	
(3) 0.8 (4) 0.9	114
105. The sum of the series	1000
(1 + 0.6 + 0.06 + 0.006 + 0.0006	1 1
+) is	1.1
2 1	(
(1) $1\frac{2}{3}$ (2) $1\frac{1}{3}$	
· ·	1 6
(3) $2\frac{1}{3}$ (4) $2\frac{2}{3}$	115.
3 3	
	1 0
106. $\sqrt{0.009 \times 0.036 \times 0.016 \times 0.08}$	
108. $\sqrt{0.002 \times 0.0008 \times 0.0002}$	
is equal to	
and the second sec	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

1) 34 (2) 36 (4) 39 3) 38 A number, when divided by 114, eaves remainder 21. If the same number is divided by 19, then he remainder will be (2) 2 1) 1 (4) 17 3)7 The square root of 0.09 is 1) 0.30 (2) 0.033) 0.81 (4) 0.081The number 0.121212.... in the form $\frac{p}{q}$ is equal to (2) $\frac{2}{11}$ (1) .. (3) 4 (4) 2 $\operatorname{tf}\left(\frac{3}{5}\right)^3 \left(\frac{3}{5}\right)^{-6} = \left(\frac{3}{5}\right)^{-6}$, then x is equal to (1) -2 (2) 2 (4) 1 (3) -1 Two numbers are in the ratio 3: 4. Their L.C.M. is 84. The greater number is (1) 21(2) 24 (3) 28 (4) 84 A drum of kerosene is full. When 30 litres of kerosene is drawn from it, it remains $\frac{1}{12}$ full. The capacity of the drum is (1) 120 1 (2) 135 ! (3) 150 1 (4) 180 1 By what least number should 675 be multiplied so as to obtain a perfect cube number? (1) 3 (2) 5 (3) 24 (4) 40 $\left(4\frac{1}{2}+11\frac{1}{2}+111\frac{1}{2}+1111\frac{1}{2}\right)$ is equal to (2) 1234 (1) 1236 (3) 618(4) 617 0.001 is equal to (1) $\frac{1}{1000}$ (3) 1 99 (4)

 4.41×0.16 116. $\frac{116 \times 100}{21 \times 16 \times 0.21}$ is simplified to (1) 1 (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 $(a^4 - b^4)$ 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 $(1)^{-\frac{1}{2}}$ (2) 2 (3) $\frac{1}{20}$ (4) 20256 × 256 - 144 × 144 is equal to 119. 112 (2) 400 (1) 420 (3) 360 (4) 320120. 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 is (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 (2) Rs. 35 Rs. 40 (3) Rs. 32 (4) Rs. 30 123. 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 (1) 45 : 56 (2) 45 : 51 (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) $16\frac{2}{2}$ (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 (4) 50 (3) 751.1 127. 1.14 expressed as a per cent of 1.9 is (1) 6% (2) 10% (4) 90% (3) 60% 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 is (1) 9:20(2) 20:9(4) 5:4(3) 4 : 5 130. Two successive price increases of 10% and 10% of an article are equivalent to a single price increase of (1) 19% (2) 20% (4) 22% (3) 21%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) $\frac{12}{5}$ (3) $\frac{5}{7}$ (4) $\frac{7}{5}$ 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 (2) 3/6 (3) $6\sqrt{3}$ (4) $\frac{5\sqrt{3}}{2}$

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

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 10 (1) 8, a later (2), 7,5 Ant (4) 5 (3) 6.5 136. A sum of money at compound interest doubles itself in 15 years. It will become eight times of ita search of a bond self in (2) 48 years 45 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 25 El red (2):50.000 (3) 60 🗠 💚 (4) 75 139. 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 (3) 6 (4) 6.5140. 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 11.13 (1) 100 (2) 51 S (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

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 (4) 16 days (3) 15 days Atrain, 300m long, passed a man, 147 walking along the line in the same direction at the rate of 3 km/hr 258 in 33 seconds. The speed of the ni n train is (1) 30 km/h (2) 32 km/h (3) $32\frac{8}{11}$ 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. (Berlin) Yasin Paramjeet 160 80° 120°

100

Sivaraman

Vishwanath

0.000

144. If A and B together can complete

6

(1) Rs. 11,600 (2) Rs. 11,700

(3) Rs. 16,100 (4) Rs. 17,100

years. What is the age of the son?

Rs. 5,250 per day, how much

would 7 men and 13 women earn

0001

(1) 12 years (2) 11 years (3) 10.5 years (4) 10 years

143. If 5 men of 7 women can carn

per day ?

148. What was the minimum number of votes obtained by any candidate ? (1) 100 (2) 110 (3) 120 (4) 130 149. What was the winner ? (1) Stvaraman (2) Paramjeet (3) Yasin (4) Vishwanath 150. By how many votes did the winner defeat his nearest rival? (1) 40 (2) 45 (3) 48 (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 ? (2) wasn't it ? (3) is it ? (4) isn't it ? 157. Like humans, zoo animals must have a dentist their teeth. (2) filled (1) fill (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. (2) to ()).fm (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) Duliness (3) Unfairness (4) Unwillingness **164. FERVENT** (1) Inexcitable (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

(4) Impudent Directions (171 - 175) : In the following questions a part of the semtence 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. sought after (2) wished for (3) welcomed for (4) No improvement 173. The brown shirt wants washing. 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 aiternatives, 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

170. TRITE

(1) Commonplace

(2) Clever

(3) Brief

- 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
 - 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) 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.
 - Q. 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) PORS (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.
 - Q. 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 nowadays. according to an area of the second se
 - Nowadays parents spend very meagre time with children.
 - As such, the society is going away from the value system.
 - (1) 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) SROP (2) ROPS
- (3) QRSP (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 go ing to hunt seals alone.
 - R. First he put on his fur-lined jacket.
 - S. Then he put on mittens and
 - his hands and feet from the cold.
 - Finally he picked up the gun he had cleaned so carefully the day before.

(1) PORS	(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.

- 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.
 - 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
 - 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
 - a scientist
 - (2) a politician
 - (3) a linguist
 - (4) a businessman
- 198. This passage is primarily concerned with
 - various occupations and professions
 - (2) technical terminology
 - (3) scientific undertakings
 - (4) a new language
- 199. It is true that
 - 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 number of technical terms in the nomenclature of
 - (1) Farming
 - (2) Fishing
 - (3) Sports
 - (4) Government

ANSWERS

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)
29. (4)	30 . (3)	31. (2)	32. (1)

00 (4)	94 (2)	25 (0)	96 (1)
33. (4)	34. (3) 38. (1)	35. (2)	36. (1)
37. (4)		39. (1)	40. (2)
41. (*)	42. (2)	43. (1)	44. (2)
45. (3)	46. (3)	47. (3)	48. (2) 52. (1)
49. (4)	50 . (3)	51. (2)	
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)
109. (3)	110. (3)	111. (3)	112. (4)
113. (2)	114. (1)	115. (2)	116. (1)
117. (3)	118. (1)	119. (2)	120 . (4)
121. (2)	122. (3)	123. (1)	124 . (2)
125. (4)	126. (2)	127. (3)	128. (1)
129. (4)	130. (3)	131. (2)	132. (3)
133. (2)	134. (3)	135. (4)	136. (1)
137. (3)	138. (2)	139. (1)	140. (2)
141. (3)	142. (2)	143. (4)	144. (1)
145. (2)	146. (3)	147. (4)	148. (3)
149. (1)	150. (1)	151. (3)	152. ())
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)	
173. (3)	174. (1)	175. (2)	176. (2)
177. (2)	178. (2)		
181. (1)	182. (2)		
185. (4)	186. (2)		
189. (1)	190. (2)		
193. (4)	194. (2)		+
197. (3)	198 . (2)	199 . (3)	200 . (4)