

PART - A : GENERAL INTELLIGENCE & REASONING

Directions : In questions no. 1 to 4, select the related letters/word/number from the given alternatives.

1. Tanning : Leather :: Pyrotechnics : ?
(A) Bombs (B) Fireworks
(C) Wool (D) Machinery
2. King : Throne :: Rider : ?
(A) Chair (B) Horse
(C) Seat (D) Saddle
3. F : 216 :: L : ?
(A) 1728 (B) 1700
(C) 1600 (D) 1723
4. MOUSE : KPSTC :: LIGHT : ?
(A) MGHFU (B) JGEFR
(C) JJEIR (D) MJHIU
5. If $264 \div 2 = 6$, $870 \div 3 = 11$, then what should $735 \div 5$ be ?
(A) 12 (B) 16
(C) 03 (D) 05
6. Which one of the given responses would be a meaningful order of the following ?
1. Implementation
2. Conceptual Modelling
3. Requirements Analysis
4. Logical Modelling
5. Physical Model
6. Schema Refinement
(A) 3, 2, 4, 6, 5, 1
(B) 1, 3, 2, 6, 5, 4
(C) 3, 2, 5, 4, 6, 1
(D) 3, 2, 1, 4, 6, 5

Directions : In questions no. 7 and 8, which one set of letters when sequentially placed at the gaps in the given letter series shall complete it ?

7. b_ab_b_aab_b
(A) abbb (B) abba
(C) baaa (D) aabb
8. _bcab_cabc_abca_b
(A) abca (B) asbc
(C) bbca (D) abac

Directions : In questions no. 9 to 13, find the odd word/number/number-pair from the given alternatives.

9. (A) Head (B) Heed
(C) Led (D) Heap
10. (A) Scurvy (B) Rickets
(C) Night-blindness (D) Influenza
11. (A) Rain (B) Shower
(C) Sleet (D) Raisin
12. (A) 547 - 563 (B) 71 - 55
(C) 517 - 523 (D) 248 - 231
13. 10, 13, 234, 681, 997
(A) 10 (B) 234
(C) 13 (D) 681

Directions : In questions no. 14 to 18, a series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.

14. AFI, JOR, MRU, ?
(A) GJN (B) HMP
(C) PMO (D) RJL
15. bc, cde, de, efg, fg, ?
(A) ghi (B) fgh
(C) hij (D) ijk
16. C - 3, E - 5, G - 7, I - 9, ?, ?
(A) X - 24, M - 21
(B) K - 11, M - 13
(C) O - 15, X - 24
(D) M - 18, K - 14
17. 5, 16, 51, 158, ?
(A) 1452 (B) 483
(C) 481 (D) 1454
18. $9 \times 2 : 9 \times 9 :: 9 \times 5 : ?$
(A) 9×4 (B) 9×6
(C) 9×7 (D) 9×8

19. Priti scored more than Rahul. Yamuna scored as much as Divya. Lokita scored less than Manju. Rahul scored more than Yamuna. Manju scored less than Divya. Who scored the lowest ?
 (A) Manju (B) Yamuna
 (C) Lokita (D) Rahul
20. A man showed a boy next to him and said - "He is the son of my wife's sister-in-law, but I am the only child of my parents." How is my son related to him ?
 (A) Cousin (B) Brother
 (C) Uncle (D) Nephew
21. Find the correct group of signs to solve the equation.
 $24 \div 16 \div 8 = 32$
 (A) $+-=$ (B) $-+=$
 (C) $\times+=$ (D) $+-=$
22. Sunil is the son of Kesav. Simran, Kesav's sister, has a son Maruti and daughter Sita. Prem is the maternal uncle of Maruti. How is Sunil related to Maruti ?
 (A) Cousin (B) Uncle
 (C) Brother (D) Nephew
- Directions : In questions no. 23 to 25, from the given alternatives select the word which cannot be formed using the letters of the given word.*
23. MANUSCRIPT
 (A) PRIMUS (B) SMART
 (C) RUSTIC (D) MASTER
24. SEGREGATION
 (A) NATION (B) GREAT
 (C) GREETINGS (D) SEATING
25. CONSTITUTIONAL
 (A) TUITION (B) TALENT
 (C) LOCATION (D) CONSULT
26. If each of the letters in the English alphabet is assigned an even numerical value by giving A = 2, B = 4 and so on, what would be the total value of the letters for the word LADY when similarly coded ?
 (A) 74 (B) 72
 (C) 84 (D) 82
27. If the word LEADER is coded as 20-13-9-12-13-26, how would you write LIGHT ?
 (A) 20-16-17-15-27
 (B) 20-15-16-18-23
 (C) 20-17-15-16-28
 (D) 20-16-15-17-22
28. If the first and second letters in the word 'COMMUNICATIONS' were interchanged, also the third and the fourth letters, the 5th and 6th letters and so on, which letter would be the tenth letter counting from your right ?
 (A) U (B) A
 (C) T (D) N
29. Which of the following interchanges of numbers would make the given equation correct ?
 $8 \times 20 \div 3 + 9 - 5 = 38$
 (A) 3, 8 (B) 8, 9
 (C) 3, 5 (D) 3, 9
30. Put the correct mathematical signs in the following equation from the given alternatives.
 $33 \ ? \ 11 \ ? \ 3 \ ? \ 6 = 115$
 (A) $+, -, \times$ (B) $\times, +, -$
 (C) $+, \times, \times$ (D) $-, \times, +$
31. Select the correct combination of mathematical signs to replace * signs and to balance the given equation.
 $15 * 24 * 3 * 6 * 17$
 (A) $++=-$ (B) $+ \times = +$
 (C) $- \times = +$ (D) $- + = +$

Directions : In questions no. 32 to 34, select the missing number from the given responses.

32.

84	81	88
14 12	18 9	? 11
(A) 10	(B) 12	
(C) 14	(D) 16	

33.

3	5	8	7
4	6	4	6
5	2	2	3
58	58	62	?
(A) 126	(B) 122		
(C) 128	(D) 124		

34.

4	3	2
6	9	10
9	27	?
(A) 30	(B) 20	
(C) 50	(D) 54	

35. Raj is standing in the middle of a square field. He starts walking diagonally to North-East. Then he turns right and reaches the far end of the field. Then he turns right and starts walking. In the midway he again turns right and starts walking. In halfway, he turns to his left and reaches a new far end. In what direction is Raj now ?
 (A) North (B) South
 (C) North-West (D) South-West

36. A boy starts from home in early morning and walks straight for 8 km facing the Sun. Then he takes a right turn and walks for 3 km. Then he turns right again and walks for 2 km and then turns left and walks for 1 km. Then he turns right, travels 1 km and then turns right and travels for 4 km straight. How far is he from the starting point ?
 (A) 5 km (B) 6 km
 (C) 2 km (D) 4 km

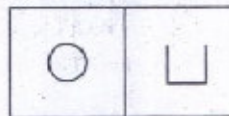
Directions : In questions no. 37 and 38, one/two statements are given, followed by two/three conclusions I, II and III. You have to consider the statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follow from the given statements.

37. **Statement :**
 Sick people need medicine.
Conclusions :
 I. Healthy people do not need medicine.
 II. People keep medicine in their home.
 (A) Only conclusion I follows
 (B) Only conclusion II follows
 (C) Both conclusions I and II follow
 (D) Neither conclusion I nor II follows

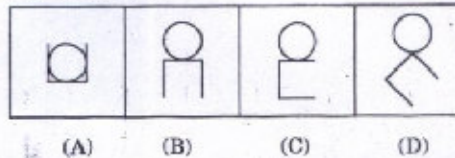
38. **Statements :**
 1. Some years are decades.
 2. All centuries are decades.
Conclusions :
 I. Some centuries are years.
 II. Some decades are years.
 III. No century is a year.
 (A) Only conclusions I and II follow
 (B) Only conclusions I and III follow
 (C) Only conclusion I follows
 (D) Only conclusion II follows

39. There is a ball and a rectangular jar. Four positions are shown below to keep them balanced. Which of the following will **not** get balanced easily ?

Question figures :



Answer figures :



SPACE FOR ROUGH WORK

40. Which one of the four boxes given below is created by folding the given key design in the question figure ?

Question figure :

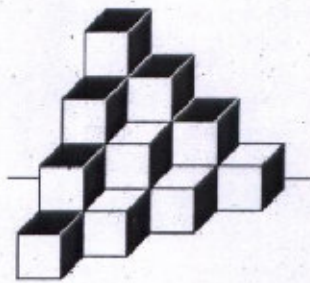


Answer figures :



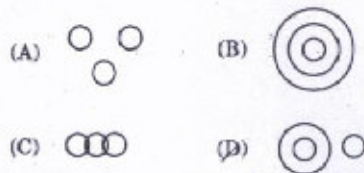
- (A) (B) (C) (D)

41. How many cubes are there in the group ?

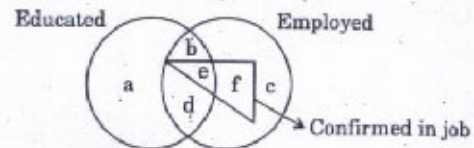


- (A) 10 (B) 16
(C) 18 (D) 20

42. Which one of the following diagrams best depicts the relationship among Earth, Sea, Sun ?

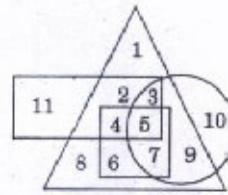


43. Read the figure and find the region representing persons who are educated and employed but not confirmed.



- (A) ac (B) abc
(C) bd (D) adc

44. In the given diagram, circle represents professionals, square represents dancers, triangle represents musicians and rectangle represents Europeans. Different regions in the diagram are numbered 1 to 11. Who among the following is neither a dancer nor a musician but is professional and not a European ?



- (A) 8 (B) 11
(C) 1 (D) 10

Directions : In questions no. 45 and 46, which answer figure will complete the pattern in the question figure ?

45. Question figure :



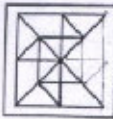
Answer figures :



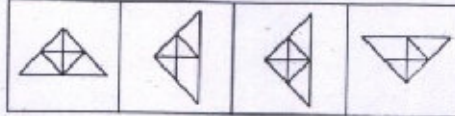
- (A) (B) (C) (D)

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46. Question figure :



Answer figures :



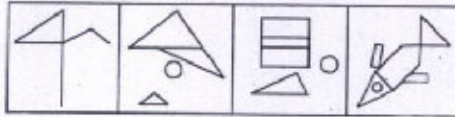
(A) (B) (C) (D)

47. Which of the answer figures includes the separate components found in the question figure ?

Question figure :



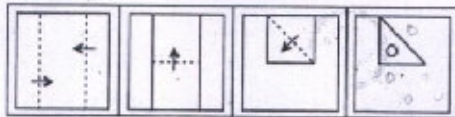
Answer figures :



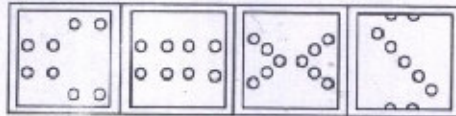
(A) (B) (C) (D)

48. A piece of paper is folded and punched as shown below in the question figures. From the given answer figures, indicate how it will appear when opened.

Question figures :



Answer figures :



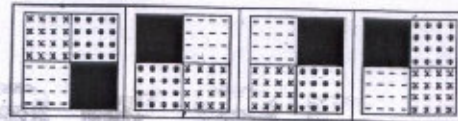
(A) (B) (C) (D)

49. Choose the right water-image of the question figure from the given answer figures.

Question figure :



Answer figures :



(A) (B) (C) (D)

50. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g. 'D' can be represented by 02, 14, etc., and 'R' can be represented by 57, 76, etc. Similarly, you have to identify the set for the word 'BEST'.

MATRIX I

	0	1	2	3	4
0	B	C	D	E	F
1	E	F	B	C	D
2	C	D	E	F	B
3	F	B	C	D	E
4	D	E	F	B	C

MATRIX II

	5	6	7	8	9
5	P	Q	R	S	T
6	S	T	P	Q	R
7	Q	R	S	T	P
8	T	P	Q	R	S
9	R	S	T	P	Q

- (A) 24, 22, 76, 97
- (B) 24, 21, 77, 97
- (C) 24, 22, 77, 97
- (D) 24, 22, 77, 96

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- Directions : In questions no. 45 to 47, find the related word/letters from the given alternatives.
39. From the given alternatives, select the word which *cannot* be formed using the letters given in the word.
INTERNATIONAL
(A) RATIONALE (B) INTERNAL
(C) LANTERN (D) TERMINAL
40. If FLOWER is coded as EMNXDS, then how can SHOWER be coded in that code?
(A) TINXDS (B) RINXDS
(C) SINXDS (D) RGNXDS
41. A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.
1, $1/2$, $1/2$, $3/4$, $3/2$, ?
(A) $5/4$ (B) $12/4$
(C) $15/4$ (D) $18/4$
42. A man said to a lady, "Your mother's husband's sister is my aunt." How is the lady related to the man?
(A) Daughter (B) Mother
(C) Sister (D) Aunt
43. Number of letters skipped in between adjacent letters in the series increases by two. Which of the following series observes the rule given above?
(A) CRJM (B) DFHK
(C) EFIO (D) BEJQ
44. There are five shops in a row. H is on the right side of O and left side of R. L is to the right of H and F is to the left of L. Which shop is in the middle?
(A) L (B) F
(C) R (D) H
45. Ink : Pen :: Bread : ?
(A) Food (B) Water
(C) Breakfast (D) Butter
46. Kathak : Dance :: Elegy : ?
(A) Rhyme (B) Poem
(C) Theme (D) Prose
47. MASTER : OCUVGT :: LABOUR : ?
(A) NCDQWT (B) NDERWT
(C) NBDRWT (D) NEDRWT
48. Date of birth of B, A and N are 15th January 1984, 10th April 1986 and 2nd December 1992 respectively. On 2nd February 2013, which will be the age difference between B and A as well as B and N respectively?
(A) 2 years 2 months 25 days;
9 years 9 months 17 days
(B) 2 years 1 month 15 days;
8 years 10 months 17 days
(C) 2 years 2 months 25 days;
8 years 10 months 17 days
(D) 2 years 2 months 24 days;
8 years 9 months 16 days
49. Six persons A, B, C, D, E and F are standing in a circle. B is between F and C; A is between E and D; F is to the left of D. Who is between A and F?
(A) B (B) C
(C) D (D) E
50. Debu lives in Madhya Pradesh. He is standing facing Himalayan Range. He goes right, then he turns and goes right again, then he turns and goes left, then he turns and goes right, finally he takes a right turn. In which direction is he heading?
(A) Pacific Ocean
(B) Bay of Bengal
(C) Himalayan Range
(D) Arabian Sea

SPACE FOR ROUGH WORK

PART - B : GENERAL AWARENESS

51. Social accounting system in India is classified into
- (A) Enterprise, households and government
(B) Assets, liabilities and debt position
(C) Public sector, Private sector and Joint sector
(D) Income, product and expenditure
52. Forced Savings refer to
- (A) Taxes on individual income and wealth
(B) Compulsory deposits imposed on income tax payers
(C) Provident fund contribution of private sector employees
(D) Reduction of consumption consequent to a rise in prices
53. The demand for labour is called
- (A) Direct demand (B) Derived demand
(C) Factory demand (D) Market demand
54. Which of the following is *not* an investment expenditure in goods and services ?
- (A) Purchase of a house
(B) Purchase of machinery
(C) An increase in business inventories
(D) Expansion of the main plant of a company
55. Which one of the following represents the Savings of the Private Corporate Sector ?
- (A) Total profits of a company
(B) Undistributed profits
(C) Excess of income over expenditure
(D) Dividends paid to shareholders
56. Who presides over the Joint Session of Indian Parliament ?
- (A) President of India
(B) Chairperson of Rajya Sabha
(C) Seniormost Member of Parliament
(D) Speaker of Lok Sabha
57. Division of Powers and Independent Judiciary are the two important features of
- (A) Unitary form of Government
(B) Democratic form of Government
(C) Federal form of Government
(D) Socialist form of Government
58. Which Article of the Indian Constitution did Dr. B.R. Ambedkar term as the "Heart and Soul of the Indian Constitution" ?
- (A) Article 19 (B) Article 356
(C) Article 32 (D) Article 14
59. Who was the first to use the term 'State' ?
- (A) Plato (B) Aristotle
(C) Machiavelli (D) Hobbes
60. Under which Article of the Constitution of India, can the fundamental rights of the members of the Armed Forces be specifically restricted ?
- (A) Article 19 (B) Article 21
(C) Article 25 (D) Article 33
61. Pulakesin II was the greatest ruler of the
- (A) Chalukyas of Badauri
(B) Chalukyas of Kalyani
(C) Pallavas of Kanchi
(D) Cholas of Tamil Nadu
62. The Uttaramerur inscription provides information on the administration of the
- (A) Satavahanas (B) Pallavas
(C) Cholas (D) Chalukyas
63. Pitts India Act of 1784 was a/an
- (A) Regulating Act (B) Ordinance
(C) Resolution (D) White paper
64. Which one of the following statements is *not* true in respect of A.O. Hume ?
- (A) He was a member of the Indian Civil Service.
(B) He founded the Indian National Congress.
(C) He presided over the Congress Annual Sessions twice.
(D) He was an ornithologist.

SPACE FOR ROUGH WORK

65. Which of the following movements saw the biggest peasant guerilla war on the eve of independence ?
 (A) Tebhaga Movement
 (B) Punnapra Vayalar Movement
 (C) Telangana Movement
 (D) Noakhali Movement
66. Maps on large scale, representing both natural and man-made features are called
 (A) Topographic maps
 (B) Thematic maps
 (C) Atlas maps
 (D) Wall maps
67. Which river in India flows in a rift-valley ?
 (A) Tapti (B) Narmada
 (C) Krishna (D) Cauvery
68. A narrow strip of land that connects two larger land masses is called
 (A) Peninsula
 (B) Cape
 (C) Isthmus
 (D) Strait
69. Tiny marine animals which constitute limestone skeletons are called
 (A) Foraminifera (B) Coral reefs
 (C) Diatoms (D) Clamitomonous
70. Apatanis are the major tribal group of
 (A) Nagaland (B) Sikkim
 (C) Arunachal Pradesh (D) Jharkhand
71. Which of the following plant pigments absorbs in red and far-red region of light ?
 (A) Chlorophyll (B) Phytochrome
 (C) Cryptochrome (D) Carotenoids
72. The process through which excess of light energy is dissipated in photosynthesis is known as
 (A) Scavenging
 (B) Photolysis
 (C) Photophosphorylation
 (D) Quenching
73. AIDS virus destroys
 (A) Monocytes (B) Neutrophils
 (C) Basophils (D) Lymphocytes
74. Teeth and Bones acquire strength and rigidity from
 (A) Fluorine (B) Chlorine
 (C) Sodium (D) Calcium
75. The type of tail found in Shark is
 (A) Homocercal (B) Heterocercal
 (C) Diphycercal (D) Protocercal
76. The Sigmoid Colon is part of
 (A) Anal Canal (B) Large Intestine
 (C) Ileum (D) Small Intestine
77. A good conductor while carrying current is
 (A) negatively charged
 (B) positively charged
 (C) electrically neutral
 (D) alternately charged positive and negative
78. The angle between the magnetic meridian and the geographical meridian at a place is
 (A) Dip
 (B) Declination
 (C) Latitude
 (D) Azimuth
79. The device used for measuring the wavelength of X-rays is
 (A) Cyclotron
 (B) Bragg Spectrometer
 (C) Mass Spectrometer
 (D) G.M. Counter
80. Alpha particle is the nucleus of an atom of
 (A) Hydrogen (B) Helium
 (C) Oxygen (D) Lithium
81. Who is the founder of "Facebook" which is currently the No. 1 social networking website in India ?
 (A) Martin Cooper
 (B) Orkut Buyukkokten
 (C) Mark Zuckerberg
 (D) Bill Gates
82. In programming, repeating some statements is usually called
 (A) Structure (B) Looping
 (C) Control structure (D) Compiling

SPACE FOR ROUGH WORK

83. Silicone is a polymer of
 (A) Silicon tetrachloride
 (B) Dialkyl dichloro silane
 (C) Silane
 (D) Tetraalkyl silane
84. Which is a natural colloid ?
 (A) Urea (B) Cane-sugar
 (C) Blood (D) Sodium chloride
85. Which one of the following does *not* contain Silver ?
 (A) Lunar Caustic (B) German Silver
 (C) Horn Silver (D) Ruby Silver
86. The presence of Cobalt in Vitamin B₁₂ was established for the first time by
 (A) Spectroscopy
 (B) Borax-Bead test
 (C) Sodium Nitroprusside test
 (D) Hydrolysis test
87. Which bacterial strain developed from natural isolates by genetic manipulations can be used for treating oil spills ?
 (A) Agrobacterium (B) Clostridium
 (C) Nitrosomonas (D) Pseudomonas
88. Coating of solid waste with impervious material is known as
 (A) Chemical fixation (B) Landfill
 (C) Capping (D) Encapsulation
89. Ultraviolet rays can be used in water treatment as
 (A) Precipitator (B) Hydrolyser
 (C) Disinfectant (D) Flocculator
90. Thiamidine dimer formation in DNA is caused by
 (A) X-rays (B) β and γ -rays
 (C) UV-rays (D) IR-rays
91. Winner of the Australian Open Men's Singles Title in 2013 is
 (A) Andy Murray (B) Roger Federer
 (C) Novak Djokovic (D) David Ferrer
92. Who among the following Presidents of MCC was a non-professional cricketer ?
 (A) Colin Cowdrey
 (B) Peter May
 (C) Christopher Martin Jenkins
 (D) Ted Dexter
93. Who won the Nobel Prize for Peace in 2012 ?
 (A) U.N. Intergovernmental Panel on Climate Change
 (B) International Atomic Energy Agency
 (C) Liu Xiaobo
 (D) European Union
94. Who won the Jnanpith Award for 2011 ?
 (A) Sitakant Mahapatra
 (B) Sachidananda Routray
 (C) Pratibha Ray
 (D) Gopinath Mohanty
95. Who is the author of the book "No Full Stops in India" ?
 (A) Ved Mehta
 (B) Nirad C. Choudhuri
 (C) Mark Tully
 (D) R.K. Narayan
96. Which one of the following pairs is *wrongly* matched ?
- | Place | Location |
|----------------------|-------------|
| (A) Red Square | — Moscow |
| (B) Tiananmen Square | — Beijing |
| (C) Tahrir Square | — Abu Dhabi |
| (D) Trafalgar Square | — London |
97. The term of a non-permanent member of the U.N. Security Council is
 (A) 6 months (B) 1 year
 (C) 2 years (D) 3 years
98. Who is the Chairman of the 20th Law Commission ?
 (A) Justice J.S. Verma
 (B) Justice K.G. Balakrishnan
 (C) Justice D.K. Jain
 (D) Justice Usha Mehra
99. Julia Gillard is the Prime Minister of
 (A) Belgium (B) Canada
 (C) Australia (D) New Zealand
100. Which is the first state in India to pass the Food Security Law ?
 (A) Kerala (B) Chhattisgarh
 (C) Gujarat (D) Punjab

SPACE FOR ROUGH WORK

PART - C : QUANTITATIVE APTITUDE

101. A and B together can complete a piece of work in 12 days, B and C can do it in 20 days and C and A can do it in 15 days. A, B and C together can complete it in
 (A) 6 days (B) 8 days
 (C) 10 days (D) 12 days
102. A and B together can complete a work in 3 days. They start together. But, after 2 days, B left the work. If the work is completed after 2 more days, B alone could do the work in
 (A) 4 days (B) 6 days
 (C) 8 days (D) 10 days
103. A does 20% less work than B. If A can complete a piece of work in $7\frac{1}{2}$ hours, then B can do it in
 (A) 4 hours (B) 6 hours
 (C) 8 hours (D) 10 hours
104. A rational number between $\frac{3}{4}$ and $\frac{3}{8}$ is
 (A) $\frac{7}{8}$ (B) $\frac{16}{9}$ (C) $\frac{9}{16}$ (D) $\frac{12}{7}$
105. Product of two co-prime numbers is 117. Then their L.C.M. is
 (A) 9 (B) 13 (C) 39 (D) 117
106. The diameters of two circles are the side of a square and the diagonal of the square. The ratio of the areas of the smaller circle and the larger circle is
 (A) 1 : 4 (B) $\sqrt{2} : \sqrt{3}$
 (C) $1 : \sqrt{2}$ (D) 1 : 2
107. The total surface area of a sphere is 8π square unit. The volume of the sphere is
 (A) $\frac{8}{3}\pi$ cubic unit (B) $8\sqrt{3}\pi$ cubic unit
 (C) $\frac{8\sqrt{3}}{5}\pi$ cubic unit (D) $\frac{8\sqrt{2}}{3}\pi$ cubic unit
108. A conical flask is full of water. The flask has base radius r and height h . This water is poured into a cylindrical flask of base radius mr . The height of water in the cylindrical flask is
 (A) $\frac{h}{2} m^2$ (B) $\frac{2h}{m}$ (C) $\frac{h}{3m^2}$ (D) $\frac{m}{2h}$
109. A dozen pairs of socks quoted at ₹ 180 are available at discount of 20%. How many pairs of socks can be bought for ₹ 48?
 (A) 4 pairs (B) 2 pairs
 (C) 5 pairs (D) 3 pairs
110. The marked price of a table is ₹ 12,000. If it was sold for ₹ 10,500 after allowing a certain discount, then the rate of discount is
 (A) 10% (B) 12.5%
 (C) 15% (D) 17.5%
111. The marked price of a radio set is ₹ 480. The shopkeeper allows a discount of 10% and gains 8%. If no discount is allowed, his gain percent would be
 (A) 18% (B) 18.5% (C) 20% (D) 25%
112. The prices of a school bag and a shoe are in the ratio 7 : 5. The price of a school bag is ₹ 200 more than the price of a shoe. Then the price of a shoe is
 (A) ₹ 700 (B) ₹ 500 (C) ₹ 1,200 (D) ₹ 200
113. A sum of ₹ 300 is divided among P, Q and R in such a way that Q gets ₹ 30 more than P and R gets ₹ 60 more than Q. The ratio of their share is
 (A) 2 : 3 : 5 (B) 3 : 2 : 5
 (C) 2 : 5 : 3 (D) 5 : 3 : 2
114. The average of nine numbers is 50. The average of the first five numbers is 54 and that of the last three numbers is 52. Then the sixth number is
 (A) 34 (B) 24 (C) 44 (D) 30
115. The average of the first nine integral multiples of 3 is
 (A) 12 (B) 15 (C) 18 (D) 21
116. An article is sold for ₹ 300 at a profit of 20%. Had it been sold for ₹ 235, the loss percentage would have been
 (A) 3 (B) 5 (C) 6 (D) 16
117. A box has 100 blue balls, 50 red balls, 50 black balls. 25% of blue balls and 50% of red balls are taken away. % of black balls at present is
 (A) 25% (B) $33\frac{1}{3}\%$
 (C) 40% (D) 50%

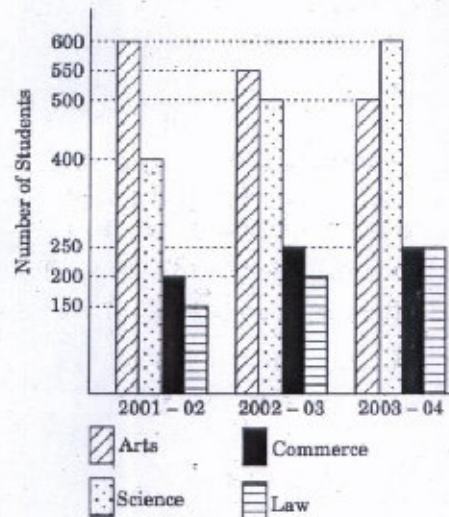
118. Two cars are moving with speeds v_1, v_2 towards a crossing along two roads. If their distances from the crossing be 40 metres and 50 metres at an instant of time then they do not collide if their speeds are such that
- (A) $v_1 : v_2 \neq 4 : 5$
 (B) $v_1 : v_2 \neq 5 : 4$
 (C) $v_1 : v_2 = 25 : 16$
 (D) $v_1 : v_2 = 16 : 25$
119. A certain distance is covered at a certain speed. If half of this distance is covered in double the time, the ratio of the two speeds is
- (A) 4 : 1 (B) 1 : 4
 (C) 2 : 1 (D) 1 : 2
120. The simple interest on ₹ 4,000 in 3 years at the rate of $x\%$ per annum equals the simple interest on ₹ 5,000 at the rate of 12% per annum in 2 years. The value of x is
- (A) 6% (B) 8% (C) 9% (D) 10%
121. If $x^2 - 3x + 1 = 0$, then the value of $x^2 + x + \frac{1}{x} + \frac{1}{x^2}$ is
- (A) 2 (B) 6 (C) 8 (D) 10
122. If $\frac{4x-3}{x} + \frac{4y-3}{y} + \frac{4z-3}{z} = 0$, then the value of $\frac{1}{x} + \frac{1}{y} + \frac{1}{z}$ is
- (A) 3 (B) 4 (C) 6 (D) 9
123. Find the simplest value of $2\sqrt{50} + \sqrt{18} - \sqrt{72}$ (given $\sqrt{2} = 1.414$).
- (A) 9.898 (B) 10.312
 (C) 8.484 (D) 4.242
124. If $a^2 + b^2 + 4c^2 = 2(a + b - 2c) - 3$ and a, b, c are real, then the value of $(a^2 + b^2 + c^2)$ is
- (A) $3\frac{1}{4}$ (B) 2 (C) $2\frac{1}{4}$ (D) 3
125. A number x when divided by 289 leaves 18 as the remainder. The same number when divided by 17 leaves y as a remainder. The value of y is
- (A) 2 (B) 3 (C) 1 (D) 5
126. An equation of the form $ax + by + c = 0$ where $a \neq 0, b \neq 0, c = 0$ represents a straight line which passes through
- (A) (2, 4) (B) (0, 0)
 (C) (3, 2) (D) None of these
127. The numerator of a fraction is 4 less than its denominator. If the numerator is decreased by 2 and the denominator is increased by 1, then the denominator becomes eight times the numerator. Find the fraction.
- (A) $\frac{3}{7}$ (B) $\frac{4}{8}$ (C) $\frac{2}{7}$ (D) $\frac{3}{8}$
128. If $x^2 = y + z, y^2 = z + x$ and $z^2 = x + y$, then the value of $\frac{1}{1+x} + \frac{1}{1+y} + \frac{1}{1+z}$ is
- (A) 1 (B) 2 (C) 0 (D) -1
129. In a triangle ABC, $\angle A = 90^\circ, \angle C = 55^\circ, \overline{AD} \perp \overline{BC}$. What is the value of $\angle BAD$?
- (A) 60° (B) 45° (C) 55° (D) 35°
130. If G is the centroid of ΔABC and $\Delta ABC = 48 \text{ cm}^2$, then the area of ΔBGC is
- (A) 8 cm^2 (B) 16 cm^2
 (C) 24 cm^2 (D) 32 cm^2
131. The diagonals AC and BD of a cyclic quadrilateral ABCD intersect each other at the point P. Then, it is always true that
- (A) $AP \cdot CP = BP \cdot DP$
 (B) $AP \cdot BP = CP \cdot DP$
 (C) $AP \cdot CD = AB \cdot CP$
 (D) $BP \cdot AB = CD \cdot CP$
132. N is the foot of the perpendicular from a point P of a circle with radius 7 cm, on a diameter AB of the circle. If the length of the chord PB is 12 cm, the distance of the point N from the point B is
- (A) $12\frac{2}{7}$ cm (B) $3\frac{5}{7}$ cm
 (C) $10\frac{2}{7}$ cm (D) $6\frac{5}{7}$ cm

SPACE FOR ROUGH WORK

133. If O be the circumcentre of a triangle PQR and $\angle QOR = 110^\circ$, $\angle OPR = 25^\circ$, then the measure of $\angle PRQ$ is
 (A) 50° (B) 55° (C) 60° (D) 65°
134. A vertical stick 12 cm long casts a shadow 8 cm long on the ground. At the same time, a tower casts a shadow 40 m long on the ground. The height of the tower is
 (A) 60 m (B) 65 m
 (C) 70 m (D) 72 m
135. A, B, C, D are four points on a circle. AC and BD intersect at a point E such that $\angle BEC = 130^\circ$ and $\angle ECD = 20^\circ$. $\angle BAC$ is
 (A) 90° (B) 100° (C) 110° (D) 120°
136. In a triangle, if three altitudes are equal, then the triangle is
 (A) Equilateral (B) Right
 (C) Isosceles (D) Obtuse
137. The tops of two poles of height 24 m and 36 m are connected by a wire. If the wire makes an angle of 60° with the horizontal, then the length of the wire is
 (A) $8\sqrt{3}$ m (B) 8 m
 (C) $6\sqrt{3}$ m (D) 6 m
138. The value of $\frac{1}{\operatorname{cosec} \theta - \cot \theta} - \frac{1}{\sin \theta}$ is
 (A) $\cot \theta$ (B) $\operatorname{cosec} \theta$
 (C) $\tan \theta$ (D) 1
139. If $\cos \theta + \sin \theta = \sqrt{2} \cos \theta$, then $\cos \theta - \sin \theta$ is
 (A) $-\sqrt{2} \cos \theta$ (B) $-\sqrt{2} \sin \theta$
 (C) $\sqrt{2} \sin \theta$ (D) $\sqrt{2} \tan \theta$
140. If $\tan \alpha = n \tan \beta$ and $\sin \alpha = m \sin \beta$, then $\cos^2 \alpha$ is
 (A) $\frac{m^2}{n^2}$ (B) $\frac{m^2 - 1}{n^2 - 1}$
 (C) $\frac{m^2 + 1}{n^2 + 1}$ (D) $\frac{m^2}{n^2 + 1}$
141. If $\cos^4 \theta - \sin^4 \theta = \frac{2}{3}$, then the value of $1 - 2 \sin^2 \theta$ is
 (A) 0 (B) $\frac{2}{3}$ (C) $\frac{1}{3}$ (D) $\frac{4}{3}$

142. If $\tan \theta = \frac{3}{4}$ and θ is acute, then $\operatorname{cosec} \theta$ is
 (A) $\frac{5}{3}$ (B) $\frac{5}{4}$ (C) $\frac{4}{3}$ (D) $\frac{4}{5}$
143. The value of $\frac{1}{(1 + \tan^2 \theta)} + \frac{1}{(1 + \cot^2 \theta)}$ is
 (A) 1 (B) 2 (C) $\frac{1}{2}$ (D) $\frac{1}{4}$

Directions : Shown below is the multiple bar diagram depicting the changes in the roll strength of a college in four faculties from 2001 - 02 to 2003 - 04.

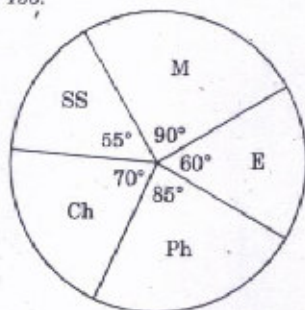


Study the above bar diagram and answer the questions no. 144 to 146.

144. The percentage of students in Law faculty in 2003 - 04 is
 (A) 18.6% (B) 15.6%
 (C) 16.7% (D) 14.8%
145. Percentage of increase in Science students in 2003 - 04 over 2001 - 2002 is
 (A) 50% (B) 150%
 (C) $66\frac{2}{3}\%$ (D) 75%
146. The percentage of students in Science faculty in 2001 - 2002 is
 (A) 26.9% (B) 27.8%
 (C) 29.6% (D) 30.2%

SPACE FOR ROUGH WORK

Directions : The following pie-chart shows the marks scored by a student in different subjects – viz. Physics (Ph), Chemistry (Ch), Mathematics (M), Social Science (SS) and English (E) in an examination. Assuming that total marks obtained for the examination is 810, answer the questions no. 147 – 150.



147. The marks obtained in English, Physics and Social Science exceed the marks obtained in Mathematics and Chemistry by

- (A) 10% (B) $10\frac{1}{9}\%$
(C) 11% (D) $11\frac{1}{9}\%$

148. The difference of marks between Physics and Chemistry is same as that between

- (A) Physics and English
(B) Mathematics and English
(C) English and Social Science
(D) Chemistry and Social Science

149. The marks obtained in Mathematics and Chemistry exceed the marks obtained in Physics and Social Science by

- (A) 30 (B) 40 (C) 45 (D) 50

150. The subject in which the student obtained 135 marks is

- (A) Physics (B) Chemistry
(C) Mathematics (D) English

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144. If the numerator of a fraction is increased by 200% and the denominator of the fraction is increased by 150%, the resultant fraction is

$\frac{9}{35}$. The original fraction is

- (A) $\frac{3}{14}$ (B) $\frac{3}{16}$ (C) $\frac{2}{15}$ (D) $\frac{3}{10}$

145. The highest score in an innings was $\frac{3}{11}$ of

the total and the next highest was $\frac{3}{11}$ of the remainder. If the scores differed by 9, then the total score is

- (A) 99 (B) 110
(C) 121 (D) 132

146. Three boys step off from the same places. If their steps measure 36 cm, 48 cm and 54 cm respectively, at what distance from the starting point will they again step together ?

- (A) 1 m 32 cm (B) 2 m 32 cm
(C) 3 m 32 cm (D) 4 m 32 cm

147. x is one more than 3 times 'a', y is 7 less than twice 'a', z is 3 less than 'a'. If 6 times the square of z is 7 less than x multiplied by y, then the value of 'a' is

- (A) 3 (B) 2 (C) -1 (D) 4

148. ₹ 120 is divided among X, Y and Z so that X's share is ₹ 20 more than Y's share and ₹ 20 less than Z's. What is Y's share ?

- (A) ₹ 30 (B) ₹ 25
(C) ₹ 20 (D) ₹ 15

149. A tangent PT from P to a circle of radius 8 cm has its length 15 cm. The distance of P from the centre of the circle is

- (A) 16 cm (B) 17 cm
(C) 18 cm (D) 20 cm

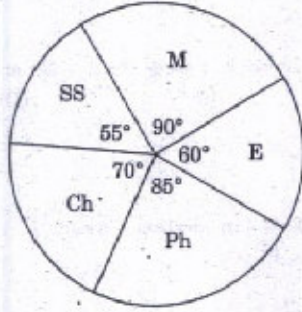
150. If $x \cos \theta = 3$ and $4 \tan \theta = y$, then the relation between x and y, which is independent of θ , is given by

(A) $\frac{9}{x^2} + \frac{16}{y^2} = 1$ (B) $\frac{x^2}{9} + \frac{y^2}{16} = 1$

(C) $\frac{9}{x^2} - \frac{16}{y^2} = 1$ (D) $\frac{x^2}{9} - \frac{y^2}{16} = 1$

SPACE FOR ROUGH WORK

निर्देश : निम्नलिखित वृत्तरेख एक छात्र द्वारा एक परीक्षा में विभिन्न विषयों में प्राप्त अंक दर्शाता है, यथा भौतिकी (Ph), रसायन (Ch), गणित (M), सामाजिक विज्ञान (SS) और अंग्रेजी (E)। मान लें कि परीक्षा के लिए प्राप्त कुल अंक 810 हैं। प्रश्न सं. 147-150 के उत्तर दें।



147. अंग्रेजी, भौतिकी और सामाजिक विज्ञान में प्राप्त अंक गणित तथा रसायन में प्राप्त अंकों से कितने अधिक हैं ?
 (A) 10% (B) $10\frac{1}{9}\%$
 (C) 11% (D) $11\frac{1}{9}\%$
148. भौतिकी और रसायन के बीच अंकों का अंतर उतना ही है जितना _____ के बीच।
 (A) भौतिकी और अंग्रेजी
 (B) गणित और अंग्रेजी
 (C) अंग्रेजी और सामाजिक विज्ञान
 (D) रसायन और सामाजिक विज्ञान
149. गणित तथा रसायन में प्राप्त अंक भौतिकी तथा सामाजिक विज्ञान में प्राप्त अंकों से कितने अधिक हैं ?
 (A) 30 (B) 40 (C) 45 (D) 50
150. छात्र ने किस विषय में 135 अंक प्राप्त किए ?
 (A) भौतिकी (B) रसायन
 (C) गणित (D) अंग्रेजी

केवल दृष्टिबाधित उम्मीदवारों के लिए

144. यदि किसी भिन्न के अंश को 200% तक बढ़ाया जाता है और भिन्न के हर को 150% तक बढ़ाया जाता है, तो परिणामी भिन्न $\frac{9}{35}$ आती है। बताइए मूल भिन्न क्या होगी ?
 (A) $\frac{3}{14}$ (B) $\frac{3}{16}$ (C) $\frac{2}{15}$ (D) $\frac{3}{10}$

145. एक पारी में सर्वाधिक स्कोर कुल स्कोर का $\frac{3}{11}$ था और अगला सर्वाधिक स्कोर शेष स्कोर का $\frac{3}{11}$ था। यदि स्कोर में 9 का अंतर हो, तो कुल स्कोर कितना था ?
 (A) 99 (B) 110
 (C) 121 (D) 132
146. तीन लड़के एक ही स्थान से चले। यदि उनके कदम क्रमशः 36 सेमी, 48 सेमी और 54 सेमी थे, तो प्रस्थान बिन्दु से कितनी दूरी पर वे फिर से एक-साथ कदम रखेंगे ?
 (A) 1 मी. 32 सेमी (B) 2 मी. 32 सेमी
 (C) 3 मी. 32 सेमी (D) 4 मी. 32 सेमी
147. x 'a' के 3 गुणा से एक अधिक है, y 'a' के दो गुणा से 7 कम है, z 'a' से 3 कम है। यदि z के वर्ग का 6 गुणा, x और y के गुणफल से 7 कम है, तो 'a' का मान क्या होगा ?
 (A) 3 (B) 2 (C) -1 (D) 4
148. X, Y और Z के बीच ₹ 120 को इस प्रकार विभाजित किया जाता है कि X का अंश Y के अंश से ₹ 20 अधिक है और Z के अंश से ₹ 20 कम है। Y का अंश कितना होगा ?
 (A) ₹ 30 (B) ₹ 25
 (C) ₹ 20 (D) ₹ 15
149. 8 सेमी त्रिज्या वाले वृत्त पर P से स्पर्श रेखा PT की लंबाई 15 सेमी है। वृत्त के केन्द्र से P की दूरी कितनी होगी ?
 (A) 16 सेमी (B) 17 सेमी
 (C) 18 सेमी (D) 20 सेमी
150. यदि $x \cos \theta = 3$ और $4 \tan \theta = y$, तो x और y का सम्बन्ध जो θ से स्वतंत्र है, किस प्रकार निर्धारित किया जाएगा ?
 (A) $\frac{9}{x^2} + \frac{16}{y^2} = 1$ (B) $\frac{x^2}{9} + \frac{y^2}{16} = 1$
 (C) $\frac{9}{x^2} - \frac{16}{y^2} = 1$ (D) $\frac{x^2}{9} - \frac{y^2}{16} = 1$

रफ कार्य के लिए स्थान

PART - D : ENGLISH COMPREHENSION

Directions : In questions no. 151 to 155, some parts of the sentences have errors and some are correct. Find out which part of a sentence has an error and blacken the oval (●) corresponding to the appropriate letter (A, B, C). If a sentence is free from error, blacken the oval corresponding to (D) in the Answer Sheet.

151. I went to / see the Taj Mahal / in a moonlit night. / No error.
(A) (B) (C) (D)
152. Having found a piece of cheese, / two cats went to a dog / to divide it among them. / No error.
(A) (B) (C) (D)
153. Being a holiday, / we went out / for a picnic. / No error.
(A) (B) (C) (D)
154. If we have no definite aim before us / we would only wonder about in aimless pursuits /
(A) (B)
and achieve nothing. / No error.
(C) (D)
155. He is anxious not only / to acquire knowledge / but also eager to display it. / No error.
(A) (B) (C) (D)

Directions : In questions no. 156 to 160, sentences are given with blanks to be filled with an appropriate word(s). Four alternatives are suggested for each question. Choose the correct alternative out of the four and indicate it by blackening the appropriate oval (●) in the Answer Sheet.

156. I'm not as successful _____ she is.
(A) as (B) like
(C) than (D) then
157. Many Tamil-speaking Sri Lankans _____
from the island to escape the military and its
atrocities.
(A) flee (B) fled
(C) flew (D) flown
158. _____ the new Safari Storme, Mahindra
has more leverage in increasing the sales.
(A) At (B) On
(C) In (D) With
159. The passenger car sales showed a decline
_____ 7% to 5-6%.
(A) for (B) of
(C) to (D) from

160. There is a _____ amount of fatty acids
and carbohydrates in some of the imported
chocolates.

- (A) negligent (B) negligible
(C) neglected (D) neglecting

Directions : In questions no. 161 to 163, out of the four alternatives, choose the one which best expresses the meaning of the given word and mark it in the Answer Sheet.

161. Derive
(A) attain (B) sustain
(C) obtain (D) contain
162. Hallucination
(A) habitat (B) dress
(C) deception (D) delusion
163. Salacious
(A) unhappy (B) satisfied
(C) lustful (D) angry

Directions : In questions no. 164 to 166, choose the word opposite in meaning to the given word and mark it in the Answer Sheet.

164. Indelible
 (A) surprising (B) concerted
 (C) temporary (D) decorous

165. Retrench
 (A) belie (B) deviate
 (C) recruit (D) revamp

166. Aggravate
 (A) extinguish (B) subsidise
 (C) alleviate (D) depreciate

Directions : In questions no. 167 to 171, four alternatives are given for the Idiom/Phrase underlined in the sentence. Choose the alternative which best expresses the meaning of the Idiom/Phrase and mark it in the Answer Sheet.

167. The captains of the rival teams should try to bury the hatchet.
 (A) make peace
 (B) win the game
 (C) forget the past
 (D) put up a stiff competition

168. He stopped at the bar to wet his whistle.
 (A) be happy (B) have a problem
 (C) have a drink (D) have a nap

169. Over the years, we remained loyal through thick and thin.
 (A) to employers and subordinates
 (B) in married life
 (C) in spite of all the difficulties
 (D) to our principles

170. My ten-year-old son is an incredible live-wire.
 (A) dangerous (B) naughty
 (C) energetic (D) lazy

171. He had to cool his heels before he could get an appointment with the doctor.
 (A) to make publicly known
 (B) to exercise influence
 (C) to lose one's temper
 (D) to be kept waiting

Directions : In questions no. 172 to 181, a sentence/part of the sentence is underlined. Below are given alternatives to the underlined sentence/part of the sentence at (A), (B) and (C) which may improve the sentence. Choose the correct alternative. In case no improvement is needed, your answer is (D).

172. It is more better to take this route than the other one.

- (A) more good (B) good
 (C) better (D) No improvement

173. She is absent; she must be sick again.

- (A) She is absent; she must have been sick again
 (B) She is absent; she has been sick again
 (C) She is absent; she is sick again
 (D) No improvement

174. Jackie has already gone to the airport she will meet us at the check-in counter.

- (A) gone to the airport, she ought to meet us
 (B) gone to the airport and Jackie will meet us
 (C) gone to the airport and she will meet us
 (D) No improvement

175. The place at which the two roads meet, you will find a small log cabin.

- (A) The place where the two roads meet
 (B) Where the two roads meet
 (C) At the place where the two roads meet
 (D) No improvement

176. The vivid photos of majestic animals and colourful birds from the wild-life park is a graphic depiction of what is beautiful in the continent of Africa.

- (A) is a beautiful and graphic depiction of
 (B) is a graphic depiction of what was beautiful in
 (C) are graphic depictions of what is beautiful in
 (D) No improvement

177. New hires in this laboratory should anticipate excellent research opportunities and getting valuable clinical experience.

- (A) and obtaining (B) as well as
 (C) and also getting (D) No improvement

SPACE FOR ROUGH WORK

178. The man ate an apple, an orange, and washed his hands.
 (A) an apple, an orange and his washed hands
 (B) an apple and an orange, and washed his hands
 (C) an apple, an orange, washed his hands
 (D) No improvement
179. After we ate a spectacular nine-course dinner, three television shows were watched by us.
 (A) we watched three television shows
 (B) we were watching three television shows
 (C) we engaged in the watching of three shows
 (D) No improvement
180. The Blue Whale, weighing more than 150 tons, the largest known animal on Earth.
 (A) which weighs more than 150 tons, being the
 (B) weighing more than 150 tons, it is
 (C) weighing more than 150 tons, is the
 (D) No improvement
181. Although I was initially apprehensive, I found the eating of snails to be a rather pleasant experience.
 (A) I found it to be a more pleasant experience
 (B) I ate the pleasant snail's experience
 (C) I found the snails experienced
 (D) No improvement
- Directions :** In questions no. 182 to 188, out of the four alternatives, choose the one which can be substituted for the given words/sentence and indicate it by blackening the appropriate oval (●) in the Answer Sheet.
182. Handwriting which is difficult or impossible to read
 (A) Eligible (B) Illegible
 (C) Illogical (D) Unintelligible
183. To play the part of, and function as, some other person
 (A) Pretend (B) Impersonate
 (C) Act (D) Imitate
184. Not easily pleased by anything
 (A) Maiden (B) Medieval
 (C) Precarious (D) Fastidious
185. To die without having made a will
 (A) Inveterate (B) Intestate
 (C) Insolvent (D) Intaglio
186. One who enjoys inflicting pain on himself
 (A) nihilist (B) egoist
 (C) sadist (D) masochist
187. Murder of a brother
 (A) Patricide (B) Regicide
 (C) Homicide (D) Fratricide
188. More like a woman than a man in manners and habits
 (A) Effeminate (B) Womanish
 (C) Delicate (D) Unmanly
- Directions :** In Questions No. 189 to 190, four words are given in each question, out of which only one word is correctly spelt. Find the correctly spelt word and mark your answer in the Answer Sheet.
189. (A) embarassed (B) embarrassed
 (C) embarrased (D) embarased
190. (A) annihilate (B) anhillate
 (C) annihillate (D) anihilate
- Directions :** In questions no. 191 to 200, you have a passage with 10 questions. Read the passage carefully and choose the best answer to each question out of the four alternatives and mark it by blackening the appropriate oval (●) in the Answer Sheet.
- Passage (191 - 200)**
- Many people who are looking to get a pet dog get a puppy. There are many reasons why people get puppies. After all, puppies are cute, friendly, and playful. But even though puppies make good pets, there are good reasons why you should consider getting an adult dog instead. When you get a puppy, you have to teach it how to behave. You have to make sure that the puppy is housebroken so that it does not go to the bathroom inside the house. You have to teach the puppy not to jump up on your guests or chew on your shoes. You have to train the puppy to walk on a leash. This is a lot of work.

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On the other hand, when you get an adult dog, there is a good chance that it will already know how to do all of the previously mentioned things. Many adult dogs have already been housebroken. Many adult dogs will not jump on or chew things that you do not want them to jump on or chew. Many adult dogs will be able to walk on a leash without pulling you to the other side of the street.

Puppies also have a lot of energy and want to play all of the time. This can be fun, but you might not want to play as much as your puppy does. Puppies will not always sleep through the night or let you relax as you watch television.

On the other hand, most adult dogs will wait on you to play. What is more, they will sleep when you are sleeping and are happy to watch television on the couch right beside you. There is one last reason why you should get an adult dog instead of a puppy. When most people go to the pound to get a dog, they get a puppy. This means that many adult dogs spend a lot of time in the pound, and some never find good homes. So if you are looking to get a dog for a pet, you should think about getting an adult dog. They are good pets who need good homes.

191. The author apparently thinks that puppies are
- hardworking
 - friendly and playful
 - not as cute as adult dogs
 - not as playful as adult dogs
192. Which is the best synonym for 'behave' as applicable to this passage?
- listen
 - understand
 - train
 - act
193. The passage speaks of
- the immature acts of puppies
 - how puppies do not make good pets
 - how puppies can be very destructive
 - the work involved in training puppies
194. Which is the best example of a dog that is housebroken?
- Spot goes outside to use the bathroom
 - Rex always breaks things inside the house
 - Rover never jumps on guests
 - Muffin chews on people's shoes
195. According to the passage, why is it easier to take care of adult dogs than puppies?
- Puppies need to learn how to walk well on a leash.
 - Adult dogs have less energy than puppies.
 - It is harder for adult dogs to find a home than it is for puppies.
- I only
 - I and II only
 - II and III only
 - I, II and III
196. Based on the information in the passage, which of the following statements is false?
- Puppies have a lot of energy
 - Puppies need a lot of attention
 - Adult dogs do not like to play
 - Adult dogs do not need to eat very much
197. As used in paragraph 3, which is the best synonym for relax?
- work
 - leave
 - play
 - rest
198. The author begins paragraphs 2 and 4 with the phrase, "On the other hand". This phrase is used to
- highlight an example
 - contradict previous information
 - contradict a later statement
 - support the following paragraph
199. In the final paragraph, the author says "many adult dogs spend a lot of time in the pound, and some never find good homes." Based on the passage, why is this most likely?
- People see adult dogs as unhappy and dangerous, while they see puppies as cute and friendly
 - People understand that most adult dogs still need a lot of training before they understand how to behave properly
 - people think that puppies are cute and playful and do not always think about how much work it will take to train them
 - People do not want to get a dog that does not have much time left to live
200. Based on the information in the passage, it can be understood that someone who owns a puppy must be very
- strict
 - serious
 - optimistic
 - responsible

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