

PART - A

GENERAL INTELLIGENCE & REASONING

1. If MEKLF is coded as 91782 and LLLJK as 88867, then how can IGHED be coded ?

- (A) 97854            (B) 64521  
(C) 53410            (D) 75632

2. Two statements are given below followed by four alternative inferences. Select the one which is most appropriate.

Statements : (i) All radios sold in that shop are of high standard.

(ii) Some of Murphy radios are sold in that shop.

Inferences :

1. All radios of high standard are manufactured by Murphy company.
2. Some of the Murphy radios are of high standard.
3. None of the Murphy radios is of high standard.
4. Some of the Murphy radios of high standard are sold in that shop.

- (A) 1 and 2 inferences only  
(B) 2 and 4 inferences only  
(C) 1 and 3 inferences only  
(D) 1 and 4 inferences only

Directions : In Question Nos. 3 and 4, select the missing number from the given responses :

3.

7	3	2
4	9	6
2	1	5
69	91	?

- (A) 58                    (B) 51  
(C) 65                    (D) 64

4.



- (A) 343                    (B) 512  
(C) 729                    (D) 1000

5. The population of rats is increasing year after year in a village. Find out the missing population from the following information :

Years	1990	1991	1992	1993	1994	1995
Population	4	8	16	?	44	64

- (A) 22                    (B) 32  
(C) 28                    (D) 34

6. If  $-$  stands for division,  $+$  for multiplication,  $\div$  for subtraction and  $\times$  for addition, then which one of the following equations is correct ?

- (A)  $19 + 5 \div 4 \times 2 \div 4 = 11$   
(B)  $19 \times 5 - 4 \div 2 + 4 = 16$   
(C)  $19 \div 5 \div 4 - 2 \times 4 = 13$   
(D)  $19 \div 5 + 4 + 2 \div 4 = 20$

SPACE FOR ROUGH WORK

Directions : In Question Nos. 7 to 15, select the related letter/word/number from the given alternatives.

7. Country : President :: State : ?

- (A) Chief Minister
- (B) Prime Minister
- (C) Speaker
- (D) Governor

8. Mirage : Desert :: ?

- (A) Sky : Illusion
- (B) Rainbow : Sky
- (C) Rain : Rainbow
- (D) Image : Mirror

9. TEKCAR : RACKET :: TCEJBO : ?

- (A) TCEOBJ (B) OBJECT
- (C) CEJBOT (D) REJECT

10. JHK : PONQ :: WVUX : ?

- (A) KNML (B) RSTU
- (C) HIGJ (D) MLKN

11. UUWX : WWYZ :: OOQR : ?

- (A) OOPG (B) MMPQ
- (C) XXYZ (D) QQST

12. BIMN : CKPR :: CURD : ?

- (A) DWUH (B) WUHC
- (C) UHDW (D) HUVN

13. BCFE : HILK :: NORQ : ?

- (A) TXWU (B) TXUW
- (C) TUXW (D) TUWX

14. ? : 63 :: 08 : 26

- (A) 12 (B) 9
- (C) 18 (D) 15

15. 64 : ? :: 72 : 53

- (A) 44 (B) 54
- (C) 52 (D) 70

Directions : In Question Nos. 16 to 21, find the odd number/letters/number pair from the given alternatives.

16. (A) Soft ball (B) Base ball  
(C) Cricket (D) Basket ball

17. (A) Annoy (B) Distress  
(C) Harass (D) Ravage

18. (A) PRSU (B) SUWY  
(C) HJLN (D) CEGI

19. (A) YDWB (B) TKRI  
(C) QNOM (D) HLFJ

20. (A) Tomato (B) Potato  
(C) Carrot (D) Onion

21. (A) 125 (B) 789  
(C) 236 (D) 347

SPACE FOR ROUGH WORK

22. Find out the pair of numbers that does not belong to the group for lack of common property.

- (A) 16 - 18 (B) 56 - 63  
(C) 96 - 108 (D) 86 - 99

23. In the following question, number of letters are skipped in between by a particular rule. Which of the following observes the rule?

- (A) ACZXFG (B) CFXURI  
(C) CFIURX (D) CXFUIR

24. Which one of the given responses would be a meaningful order of the following?

1. Sentence 2. Word  
3. Chapter 4. Phrase  
5. Paragraph

- (A) 4, 3, 1, 2, 5 (B) 2, 3, 5, 4, 1  
(C) 3, 5, 1, 4, 2 (D) 1, 3, 2, 4, 5

25. Arrange the following words as per order in the dictionary:

1. Inhabit 2. Ingenious  
3. Inherit 4. Influence  
5. Infatuation

- (A) 1, 2, 3, 4, 5 (B) 5, 4, 1, 2, 3  
(C) 4, 5, 2, 1, 3 (D) 5, 4, 2, 1, 3

26. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?

ab \_ b \_ aba \_ abab

- (A) a bb aa (B) bb aa b  
(C) ab aa b (D) a aa ba

Directions : In Question Nos. 27 to 30, a series is given, with one/two term missing. Choose the correct alternative from the given ones that will complete the series.

27. 14; 19; 29; 49; 89;    ?

- (A) 139 (B) 149  
(C) 159 (D) 169

28. BMRG, DLTF, FKVE, HUXD,    ?

- (A) JIZC (B) JZIB  
(C) GIFB (D) MOLC

29. 121, 144, 289, 324, 529, 576,    ?

- (A) 961 (B) 841  
(C) 900 (D) 729

30. 5, 21, 69, 213, 645,    ?

- (A) 1670 (B) 1941  
(C) 720 (D) 1320

31. Find out the questioned number.

6 : 5 :: 8 : ?

- (A) 2 (B) 4  
(C) 6 (D) 10

32. In a row of trees, a tree is 7<sup>th</sup> from left end and 14<sup>th</sup> from the right end. How many trees are there in the row?

- (A) 18 (B) 19  
(C) 20 (D) 21

SPACE FOR ROUGH WORK

33. Shan is 55 years old, Sathian is 5 years junior to Shan and 6 years senior to Balan. The youngest brother of Balan is Devan and he is 7 years junior to him. So what is the age difference between Devan and Shan ?

(A) 18 years

(B) 15 years

(C) 13 years

(D) 7 years

34. Vinod introduces Vishal as the son of the only brother of his father's wife. How is Vinod related to Vishal ?

(A) Cousin (B) Brother

(C) Son (D) Uncle

35. There are 80 families in a small extension area. 20 per cent of these families own a car each; 50 per cent of the remaining families own a motor cycle each. How many families in that extension do not own any vehicle ?

(A) 30 (B) 32

(C) 23 (D) 36

36. If John celebrated his victory day on Tuesday, 5<sup>th</sup> January 1965, when will he celebrate his next victory day on the same day ?

(A) 5<sup>th</sup> January 1970

(B) 5<sup>th</sup> January 1971

(C) 5<sup>th</sup> January 1973

(D) 5<sup>th</sup> January 1974

37. Five girls M, N, O, P and Q are standing in a row. P is on the right of Q. N is on the left of Q, but is on the right of M. P is on the left of O. Who is standing on the extreme right ?

(A) Q (B) N

(C) O (D) P

38. Sita is elder than Swapna. Lavanya is elder than Swapna but younger than Sita. Suvarna is younger than both Hari and Swapna, Swapna is elder than Hari. Who is the youngest ?

(A) Sita

(B) Lavanya

(C) Suvarna

(D) Hari

SPACE FOR ROUGH WORK

9. After 9'0 clock at what time between 9 p.m. and 10 p.m. will the hour and minute hands of a clock point in opposite direction ?
- (A) 15 minutes past 9  
(B) 16 minutes past 9  
(C)  $16\frac{4}{11}$  minutes past 9  
(D)  $17\frac{1}{11}$  minutes past 9
10. One evening, Raja started to walk toward the Sun. After walking a while, he turned to his right and again to his right. After walking a while, he again turned right. In which direction is he facing ?
- (A) South (B) East  
(C) West (D) North
11. Vivek and Ashok start from a fixed point. Vivek moves 3 km north and turns right and then covers 4 km. Ashok moves 5 km west and turns right and walks 3 km. Now how far are they apart ?
- (A) 10 km (B) 9 km  
(C) 8 km (D) 6 km
42. From the given alternative words, select the word which cannot be formed using the letters of the given word :
- MISFORTUNE
- (A) FORT (B) TURN  
(C) SOFT (D) ROAM
43. From the given alternative words, select the word which can be formed using the letters of the given word :
- STRANGULATION
- (A) TRIANGLE  
(B) GARLAND  
(C) ROASTING  
(D) TRAUMA
44. If in a certain code, RAMAYANA is written as PYKYWYLY, then how MAHABHARATA can be written in that code ?
- (A) NBIBCIBSBUB  
(B) LZGZAGZQZSZ  
(C) MCJCDJCTCVC  
(D) KYFYZFYPYRY

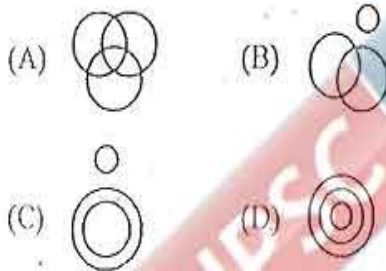
SPACE FOR ROUGH WORK

45. Some equations have been solved on the basis of certain system. Find the correct answer for the unsolved equation on that basis.

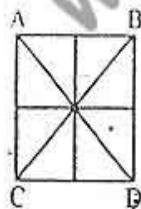
If  $94 + 16 = 42$ ,  $89 + 23 = 78$ , then  $63 + 45 = ?$

- (A) 18                      (B) 28  
(C) 38                      (D) 48

46. Which one of the following diagrams represents the correct relationship among 'Judge', 'Thief' and 'Criminal' ?



47. How many triangles are there in the given figure ?



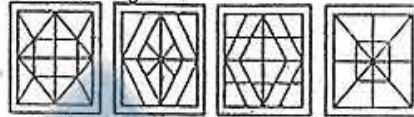
- (A) 16                      (B) 14  
(C) 8                      (D) 12

Directions : From the given answer figures, select the one in which the question figure is hidden/embedded.

48. Question figure



Answer figures



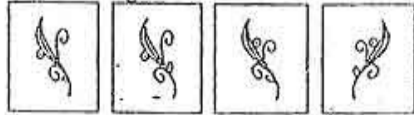
(A)                      (B)                      (C)                      (D)

Directions : If a mirror is placed on the line MN, then which of the answer figures is the right image of the given figure ?

49. Question figure



Answer figures



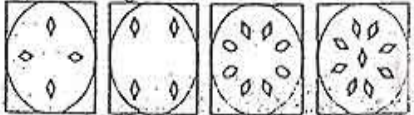
(A)                      (B)                      (C)                      (D)

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

50. Question figures



Answer figures



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

SPACE FOR ROUGH WORK

FOR VISUALLY HANDICAPPED  
CANDIDATES ONLY

46. Sudha is arranging 45 blocks in an ascending order from bottom to top. The no. of blocks in every row is divisible by 3. The minimum no. of blocks is at the top. The no. of blocks in the 5<sup>th</sup> row from the top will be

- (A) 9
- (B) 18
- (C) 12
- (D) 15

47. A five member research group is chosen from Mathematicians A, B, C and D and Physicists E, F, G and H. At least 3 Mathematicians must be in the group. However,

- A refuses to work with D
- B refuses to work with E
- F refuses to work with G
- D refuses to work with F

If B is chosen, who else would have to be in the group?

- (A) C
- (B) D
- (C) F
- (D) G

48. Suppose a tree has 20 branches. Each branch has 5 sub-branches. Each sub-branch has 15 leaves. But in five sub-branches leaves were falling at the rate of 5 leaves for a sub-branch. 10 sub-branches were cut off due to weather condition. How many leaves were there in the tree right now?

- (A) 1300
- (B) 1325
- (C) 1375
- (D) 1350

49. Select the letters that complete the first word and begin the second from the given alternatives :

APR( ? )ION

- (A) IL
- (B) ISE
- (C) ON
- (D) INDICE

50. Three bells toll at intervals of 9, 12 and 15 minutes respectively. All the bells begin to toll at 8.00 a.m. At what time will they first toll together again?

- (A) 8.45 a.m.
- (B) 10.30 a.m.
- (C) 11.00 a.m.
- (D) 1.30 p.m.

SPACE FOR ROUGH WORK

PART - B

GENERAL AWARENESS

51. The common tree species in Nilgiri hills is  
(A) Sal (B) Pine  
(C) Eucalyptus (D) Teak
52. Which of the following statements on Railway Budget for 2011-12 is correct?  
(A) There would be 10% increase in fares for long distance train travel both by airconditioned and non-airconditioned classes.  
(B) There would be 15% increase in freight rates on all goods other than foodgrains.  
(C) There would be 15% increase in passenger fares for all classes for long distance travel as well as in freights.  
(D) There would be no increase in fares for both suburban and long distance train travel.
53. The nuclear reactors which were damaged heavily due to a strong Earthquake-cum-Tsunami that hit Japan on March 11, 2011 causing radiation leakage were at  
(A) Fukushima  
(B) Kyoto  
(C) Tokyo  
(D) None of the above
- The maximum limit on poll expenditure for Assembly Constituencies has been raised in February, 2011 to  
(A) 16 lakhs (B) 18 lakhs  
(C) 20 lakhs (D) 25 lakhs
55. First Indian Prime Minister to visit Siachen has been  
(A) Rajiv Gandhi  
(B) Inder Kumar Gujaral  
(C) Man Mohan Singh  
(D) None of the above
56. Which of the following books has been written by Kishwar Desai?  
(A) The Red Devil  
(B) Witness the Night  
(C) Tonight This Savage Rite  
(D) Earth and Ashes
57. Which of the following folk/tribal dances is associated with Karnataka?  
(A) Yakshagana (B) Veedhi  
(C) Jatra (D) Jhora
58. Who of the following received Sangeet Natak Akademi's Ustad Bismillah Khan Yuva Puraskar for 2009 in Theatre?  
(A) Omkar Shrikant Dadarkar  
(B) Ragini Chander Sarkar  
(C) Abanti Chakravorty & Sukracharya Rabha  
(D) K. Nellai Manikandan
59. Which of the following countries did not win any of the "FIFA World Cup" in 2002, 2006 & 2010?  
(A) Brazil  
(B) Argentina  
(C) Spain  
(D) South Africa
60. Who invented vaccination for 'Small Pox' ?  
(A) Sir Fredrick Grant Banting  
(B) Sir Alexander Fleming  
(C) Edward Jenner  
(D) Louis Pasteur
61. Who was the first Indian to become member of British Parliament?  
(A) Bankim Chander Chatterjee  
(B) W.C. Bannerjee  
(C) Dadabhai Naoroji  
(D) None of the above



62. The purchase of shares and bonds of Indian companies by Foreign Institutional Investors is called  
(A) Foreign Direct Investment  
(B) Portfolio Investment  
(C) NRI Investment  
(D) Foreign Indirect Investment
63. BT seed is associated with  
(A) Rice  
(B) Wheat  
(C) Cotton  
(D) Oil seeds
64. The Headquarters of International Atomic Energy Agency is in  
(A) Geneva  
(B) Paris  
(C) Vienna  
(D) Washington
65. In the Budget Estimates for 2011-12, an allocation of ₹ 400 crore has been made to bring in a green revolution in the East in the rice-based cropping system of  
(A) Assam & West Bengal only  
(B) Assam, West Bengal, Orissa & Bihar only  
(C) Assam, West Bengal, Orissa, Bihar & Jharkhand only  
(D) Assam, West Bengal, Orissa, Bihar, Jharkhand, Eastern Uttar Pradesh & Chhatisgarh
66. In the Budget for 2011-12 presented by the Finance Minister on-28-2-2011, the income-tax exemption limit for senior citizens (60 years to less than 80 years) has been increased to  
(A) ₹ 2.50 lakh (B) ₹ 2.60 lakh  
(C) ₹ 2.80 lakh (D) ₹ 3.00 lakh
67. If the Anglo-Indian community does not get adequate representation in the Lok Sabha, two members of the community can be nominated by the  
(A) Prime Minister  
(B) President  
(C) Speaker  
(D) President in consultation with the Parliament
68. For the election of President of India, a citizen should have completed the age of  
(A) 25 years (B) 30 years  
(C) 35 years (D) 18 years
69. Who said, "A good citizen makes a good State and a bad citizen makes a bad State" ?  
(A) Plato (B) Rousseau  
(C) Aristotle (D) Laski
70. A member of Parliament will lose his membership of Parliament if he is continuously absent from Sessions for  
(A) 45 days (B) 60 days  
(C) 90 days (D) 365 days
71. In India, the Residuary Powers are vested with  
(A) Union Government  
(B) State Government  
(C) Both the Union Government and the State Government  
(D) Local Government
72. Mention the place where Buddha attained enlightenment.  
(A) Sarnath (B) Bodh Gaya  
(C) Kapilavastu (D) Rajgriha

73. Coronation of Shivaji took place in  
(A) 1627 A.D. (B) 1674 A.D.  
(C) 1680 A.D. (D) 1670 A.D.
74. The System of Dyarchy was introduced in India in  
(A) 1909 (B) 1935  
(C) 1919 (D) 1945
75. The Editor of 'Young India' and 'Harijan' was  
(A) Nehru  
(B) Ambedkar  
(C) Mahatma Gandhi  
(D) Subash Chandra Bose
76. Who of the following attended all the Three Round Table Conferences?  
(A) B.R. Ambedkar  
(B) M.M. Malavia  
(C) Vallabhbhai Patel  
(D) Gandhiji
77. Which is the largest living bird on Earth?  
(A) Emu  
(B) Ostrich  
(C) Albatross  
(D) Siberian Crane
78. Rihand Dam Project provides irrigation to  
(A) Gujarat and Maharashtra  
(B) Orissa and West Bengal  
(C) Uttar Pradesh and Bihar  
(D) Kerala and Karnataka
79. The Headquarters of MCF (Master Control Facility) – the nerve centre of the entire space craft operations in India is at  
(A) Hyderabad – Andhra Pradesh  
(B) Thumba – Kerala  
(C) Sriharikota – Andhra Pradesh  
(D) Hassan – Karnataka
80. Which is the longest irrigation canal in India?  
(A) Sirhind Canal  
(B) Yamuna Canal  
(C) Indira Gandhi Canal  
(D) East Kosi Canal
81. Which one of the following minerals is found in Monazite sand?  
(A) Potassium  
(B) Uranium  
(C) Thorium  
(D) Sodium
82. In coriander, the useful parts are  
(A) roots & leaves  
(B) leaves & flowers  
(C) leaves & dried fruits  
(D) flowers & dried fruits
83. Which plant is called 'Herbal Indian Doctor'?  
(A) Amla (B) Mango  
(C) Neem (D) Tulsi
84. The pH of human blood is  
(A) 7.2 (B) 7.8  
(C) 6.6 (D) 7.4
85. Which amongst the following is largest endocrine gland in the body?  
(A) Thyroid  
(B) Parathyroid  
(C) Adrenal  
(D) Pituitary
86. Which amongst the following is the largest mammal?  
(A) Elephant  
(B) Whale  
(C) Dinosaur  
(D) Rhinoceros

87. Which part becomes modified as the tusk of elephant ?  
(A) Canine  
(B) Premolar  
(C) Second incisor  
(D) Molar
88. Optical fibres are based on the phenomenon of  
(A) Interference  
(B) Dispersion  
(C) Diffraction  
(D) Total Internal Reflection
89. Now-a-days yellow lamps are frequently used as street lights. Which of the following gases is used in these lamps ?  
(A) Sodium  
(B) Neon  
(C) Hydrogen  
(D) Nitrogen
90. 'Mirage' is an example of  
(A) refraction of light only  
(B) total internal reflection of light only  
(C) refraction and total internal reflection of light  
(D) dispersion of light only
91. The phenomenon of light associated with the appearance of blue colour of the sky is  
(A) Interference  
(B) Reflection  
(C) Refraction  
(D) Scattering
92. In which of the following areas, a spreadsheet software is more useful ?  
(A) Psychology  
(B) Publishing  
(C) Statistics  
(D) Message sending
93. A Group Ware is a  
(A) Hardware (B) Network  
(C) Software (D) Firmware
94. Lens is made up of  
(A) Pyrex glass  
(B) Flint glass  
(C) Ordinary glass  
(D) Cobalt glass
95. The element which is used for vulcanizing rubber  
(A) Sulphur  
(B) Bromine  
(C) Silicon  
(D) Phosphorus
96. Which of the following is responsible for the extra strength of pyrex glass ?  
(A) Potassium Carbonate  
(B) Lead Oxide  
(C) Borax  
(D) Ferric Oxide
97. The noble gas used for the treatment of cancer is  
(A) Helium (B) Argon  
(C) Krypton (D) Radon
98. Vasundhara Summit was held in  
(A) USA  
(B) UK  
(C) Brazil  
(D) Australia
99. 'Loktak' is a  
(A) Valley  
(B) Lake  
(C) River  
(D) Mountain Range
100. Which city receives the highest cosmic radiation amongst the following ?  
(A) Chennai  
(B) Mumbai  
(C) Kolkata  
(D) Delhi

PART - C  
NUMERICAL APTITUDE

101. X sells two articles for ₹ 4,000 each with no loss and no gain in the transaction. If one was sold at a gain of 25% the other is sold at a loss of  
(A) 25% (B)  $18\frac{2}{9}\%$   
(C)  $16\frac{2}{3}\%$  (D) 20%
102. 20% loss on selling price is what percent loss on the cost price?  
(A) 25% (B) 15%  
(C)  $16\frac{2}{3}\%$  (D)  $16\frac{1}{3}\%$
103. If 90% of A = 30% of B and B = x% of A, then the value of x is  
(A) 800 (B) 300  
(C) 700 (D) 400
104. A reduction of 20% in the price of sugar enables me to purchase 5 kg more for ₹ 600. Find the price of sugar per kg before reduction of price.  
(A) ₹ 24 (B) ₹ 30  
(C) ₹ 32 (D) ₹ 36
105. The price of a commodity rises from ₹ 6 per kg to ₹ 7.50 per kg. If the expenditure cannot increase, the percentage of reduction in consumption is  
(A) 15 (B) 20  
(C) 25 (D) 30
106. First and second numbers are less than a third number by 30% and 37% respectively. The second number is less than the first by  
(A) 7% (B) 4%  
(C) 3% (D) 10%
107. Walking at  $\frac{6}{7}$  of his usual speed a man is 25 minutes too late. His usual time to cover this distance is  
(A) 2 hours 30 minutes  
(B) 2 hours 15 minutes  
(C) 2 hours 25 minutes  
(D) 2 hours 10 minutes
108. Walking at 5 km/hr a student reaches his school from his house 15 minutes early and walking at 3 km/hr he is late by 9 minutes. What is the distance between his school and his house?  
(A) 5 km (B) 8 km  
(C) 3 km (D) 2 km
109. A sum of ₹ 12,000 deposited at compound interest becomes double after 5 years. After 20 years, it will become  
(A) ₹ 48,000 (B) ₹ 96,000  
(C) ₹ 1,90,000 (D) ₹ 1,92,000
110. Simple interest on a certain sum for 6 years is  $\frac{9}{25}$  of the sum. The rate of interest is  
(A) 6% (B)  $6\frac{1}{2}\%$   
(C) 8% (D)  $8\frac{1}{2}\%$
111. The difference between the compound interest and simple interest for the amount ₹ 5,000 in 2 years is ₹ 32. The rate of interest is  
(A) 5% (B) 8%  
(C) 10% (D) 12%

SPACE FOR ROUGH WORK

112. The least number, which is to be added to the greatest number of 4 digits so that the sum may be divisible by 345, is

- (A) 50                      (B) 6  
(C) 60                      (D) 5

113. If  $\frac{4\sqrt{3} + 5\sqrt{2}}{\sqrt{48} + \sqrt{18}} = a + b\sqrt{6}$ , then the values of a and b are respectively

- (A)  $\frac{9}{15}, \frac{4}{15}$                       (B)  $\frac{3}{11}, \frac{4}{33}$   
(C)  $\frac{9}{10}, \frac{2}{5}$                       (D)  $\frac{3}{5}, \frac{4}{15}$

114. If  $17^{200}$  is divided by 18, the remainder is

- (A) 1                      (B) 2  
(C) 16                      (D) 17

115. If  $x + \frac{2}{3 + \frac{4}{5 + \frac{7}{6}}} = 10$ , then the value of x is

- (A)  $\frac{1276}{135}$                       (B)  $\frac{53}{6}$   
(C) 4.35                      (D) 9

116. The unit digit in the sum of  $(124)^{372} + (124)^{373}$  is

- (A) 5                      (B) 4  
(C) 2                      (D) 0

117. The value of  $3 + \frac{1}{\sqrt{3}} + \frac{1}{3 + \sqrt{3}} + \frac{1}{\sqrt{3} - 3}$  is

- (A)  $3 + \sqrt{3}$                       (B) 3  
(C) 1                      (D) 0

118. If  $a * b = a^b$ , then the value of  $5 * 3$  is

- (A) 125                      (B) 243  
(C) 53                      (D) 15

119. If  $-1 - 5x = .04y$ , then the value of  $\frac{y^2 - x^2}{y^2 + 2xy + x^2}$  is

- (A)  $\frac{730}{77}$                       (B)  $\frac{73}{77}$   
(C)  $\frac{73}{770}$                       (D)  $\frac{74}{77}$

120. If  $\sqrt{0.03 \times 0.3 \times a} = 0.3 \times 0.3 \times \sqrt{b}$  value of  $\frac{a}{b}$  is

- (A) 0.009                      (B) 0.03  
(C) 0.09                      (D) 0.08

SPACE FOR ROUGH WORK

121. If  $\sqrt{1 + \frac{x}{9}} = \frac{13}{3}$ , then the value of  $x$  is

(A)  $\frac{1439}{9}$  (B) 160

(C)  $\frac{1443}{9}$  (D) 169

122. The sum of two numbers is 24 and their product is 143. The sum of their squares is

(A) 296 (B) 295

(C) 290 (D) 228

123. Which one of the following will completely divide  $5^{71} + 5^{72} + 5^{73}$ ?

(A) 150 (B) 160

(C) 155 (D) 30

124. L.C.M. of two numbers is 120 and their H.C.F. is 10. Which of the following can be the sum of those two numbers?

(A) 140 (B) 80

(C) 60 (D) 70

125. When 'n' is divisible by 5 the remainder is 2. What is the remainder when  $n^2$  is divided by 5?

(A) 2 (B) 3

(C) 1 (D) 4

126. A student was asked to divide a number by 6 and add 12 to the quotient. He, however, first added 12 to the number and then divided it by 6, getting 112 as the answer. The correct answer should have been

(A) 124 (B)  $\frac{122}{3}$

(C) 118 (D) 114

127. Four runners started running simultaneously from a point on a circular track. They took 200 sec, 300 sec, 360 sec and 450 sec to complete one round. After how much time do they meet at the starting point for the first time?

(A) 1800 seconds

(B) 3600 seconds

(C) 2400 seconds

(D) 4800 seconds

128. 'x' number of men can finish a piece of work in 30 days. If there were 6 men more, the work could be finished in 10 days less. The original number of men is

(A) 6 (B) 10

(C) 12 (D) 15

129. A work can be completed by P and Q in 12 days, Q and R in 15 days, R and P in 20 days. In how many days P alone can finish the work?

(A) 10 (B) 20

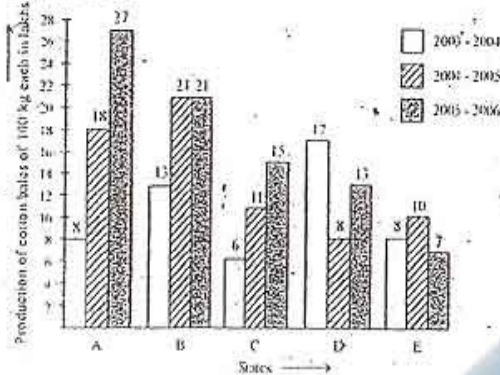
(C) 30 (D) 60

SPACE FOR ROUGH WORK

130. A is thrice as good a workman as B and
139. The ratio of the quantities of an acid and water in a mixture is 1 : 3. If 5 litres of acid is further added to the mixture, the new ratio becomes 1 : 2. The quantity of new mixture in litres is  
 (A) 32 (B) 40  
 (C) 42 (D) 45
140. The ratio between two numbers is 2 : 3. If each number is increased by 4, the ratio between them becomes 5 : 7. The difference between the numbers is  
 (A) 8 (B) 6  
 (C) 4 (D) 2
141. Monthly incomes of A and B are in the ratio of 4 : 3 and their expenses bear the ratio 3 : 2. Each of them saves ₹ 6,000 at the end of the month, then the monthly income of A is  
 (A) ₹ 12,000 (B) ₹ 24,000  
 (C) ₹ 30,000 (D) ₹ 60,000
142. The average of three consecutive odd numbers is 12 more than one third of the first of these numbers. What is the last of the three numbers?  
 (A) 15  
 (B) 17  
 (C) 19  
 (D) Data inadequate
134. The wheel of a motor car makes 1000
143. The average of 18 observations is recorded as 124. Later it was found that two observations with values 64 and 28 were entered wrongly as 46 and 82. Find the correct average of the 18 observations.  
 (A)  $111\frac{7}{9}$  (B) 122  
 (C) 123 (D)  $137\frac{3}{9}$
144. If the cost price of 15 articles is equal to the selling price of 12 articles, find gain %.  
 (A) 20 (B) 25  
 (C) 18 (D) 21
145. The cost price of an article is 64% of the marked price. The gain percentage after allowing a discount of 12% on the marked price is  
 (A) 37.5% (B) 48%  
 (C) 50.5% (D) 52%
146. A man purchased some eggs at 3 for ₹ 5 and sold them at 5 for ₹ 12. Thus he gained ₹ 143 in all. The number of eggs he bought is  
 (A) 210 (B) 200  
 (C) 195 (D) 190

SPACE FOR ROUGH WORK

The following graph shows the production of cotton bales of 100 kg each in lakhs by different states A, B, C, D and E over the years. Study the graph and answer Questions Nos. 147 to 150.



147. The production of State C in 2003-2004 is how many times its production in 2005-2006.  
 (A) 2.5 (B) 1.85  
 (C) 1.5 (D) 0.4
148. In which State(s) is there a steady increase in the production of cotton during the given period?  
 (A) A and B (B) B and D  
 (C) A and C (D) D and E
149. How many kg of cotton was produced by State C during the given period?  
 (A) 32,00,00,000 kg  
 (B) 42,50,00,000 kg  
 (C) 33,00,00,000 kg  
 (D) 35,00,00,000 kg
150. The number of States for which the production of cotton in 2005-06 is less than or equal to the preceding year is  
 (A) 3  
 (B) 2  
 (C) 1  
 (D) There is no such State

(For Visually Handicapped (VH) Candidates Only)

147. The HCF of two numbers is 11 and their LCM is 7700. If one of the numbers is 275, then the other is  
 (A) 279 (B) 283  
 (C) 308 (D) 318
148. Radius of a cylinder is twice that of a cone. Height of cone is twice that of the cylinder. Ratio of the volume of cylinder to that of the cone is  
 (A) 3:4 (B) 1:3  
 (C) 6:1 (D) 1:6
149. P and Q share profits in the ratio 5:3. P surrenders  $\frac{1}{5}$  of his share and Q,  $\frac{1}{3}$  of his share in favour of R – a new partner. The new profit sharing ratio of P, Q and R is  
 (A) 1:1:1 (B) 1:2:1  
 (C) 2:1:1 (D) 1:1:2
150. A man walks 2000 m in 30 minutes, 1500 m in 40 minutes and 500 m in 10 minutes. Then his average speed for the whole journey in m/min is  
 (A) 50 (B) 60.5  
 (C) 55 (D) 51.5

SPACE FOR ROUGH WORK



PART - D

ENGLISH COMPREHENSION

Directions : In Question Nos. 151 to 155, groups of four words are given. In each group, one word is correctly spelt. Find the correctly spelt word and mark your answer in the Answer Sheet.

151. (A) qestalt (B) imbrolios  
(C) ampassé (D) recondite
152. (A) hindrance  
(B) corespndence  
(C) insurence  
(D) assurance
153. (A) adversery (B) adulatory  
(C) advisory (D) arbitrary
154. (A) rogeu (B) colleague  
(C) dilage (D) alege
155. (A) malignant (B) impertinant  
(C) independant (D) neglegent

Directions : In the following passage (156 to 165), some of the words have been left out. First read the passage over and try to understand what it is about. Then fill in the blanks with the help of the alternatives given. Mark your answer in the Answer-Sheet.

PASSAGE (Q. Nos. 156 - 165)

Almost every full moon night, the officials in Andaman and Nicobar Islands take part in a cautious ritual. The tribesmen watch from a safe distance as the officials 156 the island in a boat 157 gifts for them. The islanders come 158 hesitantly

only after the officials 159 dumped the coconuts brought 160 them onto the beach and begin 161 away from their small island. On some nights the tribals even 162 up enough courage to swim upto a few feet 163 from the boat. The officials maintain that they do 164 want to interfere with the way of life of the tribals. The island 165 heavily on the mainland for most goods.

156. (A) approach (B) depart  
(C) present (D) absent
157. (A) coming (B) leaving  
(C) carrying (D) relieving
158. (A) forward (B) backward  
(C) sides (D) upward
159. (A) has (B) have  
(C) had (D) be
160. (A) by (B) to  
(C) in (D) for
161. (A) watching (B) seeing  
(C) sailing (D) stopping
162. (A) leave (B) muster  
(C) come (D) present
163. (A) correctly (B) distantly  
(C) near (D) away
164. (A) no (B) neither  
(C) not (D) nor
165. (A) spy (B) rely  
(C) occupy (D) reply

Directions : In Question Nos. 166 to 170, some of the sentences have errors and some are correct. Find out which part of a sentence has an error and blacken the rectangle [ ] corresponding to the appropriate letter (A, B, C). If a sentence is free from errors, blacken the rectangle corresponding to (D) in the Answer Sheet.

166. A great many student /  
(A)  
have been declared / successful. /  
(B) (C)  
No error.  
(D)
167. We are going to launch. /  
(A)  
this three-crores project /  
(B)  
within the next few months. / No error.  
(C) (D)
168. I hope to go to shopping / this weekend /  
(A) (B)  
if the weather permits. / No error.  
(C) (D)
169. The lawyer asked /  
(A)  
if it was worth to take /  
(B)  
the matter to court. / No error.  
(C) (D)
170. After a carefully investigation /  
(A)  
we discovered /  
(B)  
that the house was infested with termites. /  
(C)  
No error.  
(D)

Directions : In question Nos. 171 to 175, 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 and indicate it by blackening the appropriate rectangle [ ] in the Answer Sheet.

171. The company let me \_\_\_\_\_ time off work.  
(A) take (B) taking  
(C) to take (D) took
172. I assume \_\_\_\_\_ with me.  
(A) every one agreeing  
(B) that every one agrees  
(C) every one to agree  
(D) that every one to agree
173. \_\_\_\_\_ the rain forests is very important, if we do not want the flora and fauna found there to become extinct.  
(A) Reserving (B) Destroying  
(C) Preserving (D) Maintaining
174. If I had helped him, he \_\_\_\_\_  
(A) will not be drowned  
(B) would not be drowned  
(C) will not have drowned  
(D) would not have drowned
175. When will you hand \_\_\_\_\_ your assignment ?  
(A) in (B) back  
(C) down (D) into

Directions : In Question Nos. 176 to 180, out of the four alternatives, choose the one which best expresses the meaning of the given word and mark it in the Answer Sheet.

176. Barren  
(A) good (B) wholesome  
(C) unproductive (D) profitable
177. Infamy  
(A) notoriety (B) glory  
(C) integrity (D) familiarity
178. Intrepid  
(A) hesitant (B) fearless  
(C) extrovert (D) rash
179. Prodigal  
(A) exclusive (B) productive  
(C) lavish (D) carefree
180. Perspicuous  
(A) relevant (B) precise  
(C) brief (D) clear

Directions : In Question Nos. 181 to 185, choose the word opposite in meaning to the given word and mark it in the Answer Sheet.

181. Liberty  
(A) serenity  
(B) slavery  
(C) serfdom  
(D) subordination
182. Disorderly  
(A) chaotic (B) organized  
(C) adjusted (D) arranged
183. Elevation  
(A) reduction (B) humiliation  
(C) depression (D) debasement

184. Glossy  
(A) dull (B) shining  
(C) weary (D) tired
185. Appropriate  
(A) dissimilar (B) incomparable  
(C) unsuitable (D) disparate

Directions : In Question Nos. 186 to 190, four alternatives are given for the Idiom/Phrase. Choose the alternative which best expresses the meaning of the Idiom/Phrase and mark it in the Answer Book.

186. a damp squib  
(A) rainy weather  
(B) a disappointing result  
(C) a skirt in a laundry  
(D) none of the above
187. in cold blood  
(A) angrily (B) deliberately  
(C) excitedly (D) slowly
188. to take someone for a ride  
(A) to give a ride to someone  
(B) to deceive someone  
(C) to be indifferent  
(D) to disclose a secret
189. to move heaven and earth  
(A) to cause an earthquake  
(B) to try everything possible  
(C) to pray to all Gods  
(D) to travel in a rocket
190. to smell a rat  
(A) to smell foul  
(B) to see a rat  
(C) to chase a rat  
(D) to be suspicious

Directions : In Question Nos. 191 to 195, a sentence is given which / a part of which may need improvement. Alternatives are given at (A), (B) and (C) below which may be a better option. In case no improvement is needed, your answer is (D). Blacken the appropriate rectangle [ ] in the Answer Sheet.

191. What do you for go to school ?

- (A) For what do you go to school ?
- (B) What do you go for to school ?
- (C) What do you go to school for ?
- (D) No improvement.

192. He, pleased the directors and this completed his report in good time.

- (A) He pleased the directors in good time and this completed his report.
- (B) He completed his report in good time and this pleased the directors.
- (C) He pleased the directors and completed his report and this in good time.
- (D) No improvement.

193. The courtiers used to tell the King how efficient an administrator he was all day long.

- (A) The courtiers all day long used to tell the King how efficient an administrator he was.
- (B) The courtiers used all day long to tell the King how efficient an administrator he was.
- (C) The courtiers used to tell the King all day long how efficient an administrator he was.
- (D) No improvement.

194. Every Saturday I go out for shopping.

- (A) for shops.
- (B) to shopping
- (C) for shop
- (D) No improvement.

195. We had a grand party and we enjoyed very much.

- (A) We had a grand party and enjoyed very much.
- (B) We had a grand party to enjoy very much.
- (C) We had a grand party and we enjoyed ourselves very much.
- (D) No improvement.

Directions : In Question Nos. 196 to 200, out of the four alternatives, choose the one which can be substituted for the given words/sentence and indicate it by blackening the appropriate rectangle [ ] in the Answer Sheet.

196. An inscription on a tomb

- (A) espionage (B) epilogue
- (C) epitaph (D) elegy

197. Feeling inside you which tells you what is right and what is wrong :

- (A) cleverness (B) conscience
- (C) consciousness (D) fear

198. Release of a prisoner from jail on certain terms and condition

- (A) Parole (B) Parley
- (C) Pardon (D) Acquittal

199. Loss of memory

- (A) Ambrosia (B) Amnesia
- (C) Insomnia (D) Forgetting

200. To struggle helplessly

- (A) Flounder (B) Founder
- (C) Fumble (D) Finger



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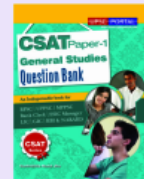
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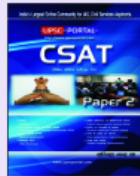
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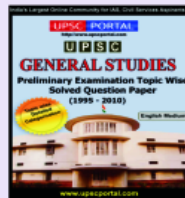


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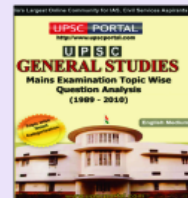


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