

GENERAL INTELLIGENCE

Directions : In Question Nos. 1 to 7, select the related word/letters/number from the given alternatives.

1. Brain : Nerves :: Computer : ?
(A) Calculator (B) Keyboard
(C) Mouse (D) CPU
2. a : One :: f : ?
(A) Quality (B) Fail
(C) E (D) Six
3. DARE : ADER :: REEK : ?
(A) EEKR (B) EKER
(C) ERKE (D) EERK
4. Paint : Brush :: ? : Nail
(A) Saw (B) Hammer
(C) Screw Driver (D) Plier
5. Silkworm : Silk Saree :: Cobra : ?
(A) Antidote (B) Poison
(C) Death (D) Fear
6. Hindu : Temple :: Jews : ?
(A) Church
(B) Gurudwara
(C) Mosque
(D) Synagogue
7. $L \times M : 12 \times 13$ as $U \times W : ?$
(A) 21×31 (B) 21×22
(C) 21×23 (D) 21×25

Directions : In Question Nos. 8 to 14, find the odd number/letters/word/number pair from the given alternatives.

8. (A) 135, 123 (B) 123, 111
(C) 111, 100 (D) 100, 88
9. (A) Cover (B) Enclose
(C) Bag (D) Annex
10. (A) Black Board (B) Duster
(C) Pen (D) Chalk
11. (A) Illusion (B) Delusion
(C) Identification (D) Hallucination
12. (A) Mercury (B) Moon
(C) Jupiter (D) Saturn
13. (A) 95 - 82 (B) 69 - 56
(C) 55 - 42 (D) 48 - 34

14. (A) $\frac{18}{72}$ (B) $\frac{21}{28}$
(C) $\frac{27}{36}$ (D) $\frac{60}{80}$
15. Find the 4th word after arranging the following words in the order in which they appear in the dictionary :
1. Postage
2. Post
3. Poster
4. Posterity
5. Posterior
(A) 2 (B) 3 (C) 4 (D) 5
16. Arrange the following in chronological order :
1. Lal Bahadur Shastri
2. Indira Gandhi
3. Jawaharlal Nehru
4. P.V. Narasimha Rao
5. V.P. Singh
(A) 1, 3, 4, 2, 5 (B) 3, 1, 2, 5, 4
(C) 3, 1, 2, 4, 5 (D) 3, 2, 1, 4, 5
17. Arrange the following words according to dictionary :
1. Inadequate
2. Institution
3. Inhospitable
4. Improvement
5. Incompetent
(A) 4, 2, 3, 5, 1 (B) 4, 1, 3, 5, 2
(C) 4, 1, 5, 3, 2 (D) 4, 1, 5, 2, 3
18. Identify the correct answer containing letters which will most appropriately fill in the blanks.
aba _ ab _ b _ ba _
(A) a, a, a, b (B) b, a, b, a
(C) b, a, a, b (D) a, b, b, b
19. What is the perimeter of a square whose area is 16 square metres ?
(A) 16 sq. metre (B) 16 metre
(C) 64 metre (D) 4 sq. metre

Directions : In Question Nos. 20 to 26, select the missing letter/number from the given responses.

20. MN, KP, IR, ?
 (A) JK (B) OX (C) GT (D) AI
21. ?, 187, 2057, 22627
 (A) 25 (B) 27 (C) 15 (D) 17
22. C, F, I, L : ?, R, U, X
 (A) A (B) Z (C) M (D) O
23. KLXWMNVUOPTSQ ?
 (A) I (B) R (C) T (D) H
24. 16, 28, 52, ?, 196
 (A) 101 (B) 102 (C) 100 (D) 104
25. 9, 16, 25, 36, ?, 64
 (A) 43 (B) 47 (C) 49 (D) 53
26.
$$\begin{array}{r} 2 \quad 5 \quad ? \\ 5 \quad 4 \quad 7 \\ 1 \quad 3 \quad 1 \\ \hline 6 \quad 6 \quad 6 \end{array}$$

 (A) 5 (B) 0 (C) 2 (D) 3
27. Which term of the following series is 320?
 5, 8, 11, 14,
 (A) 104th (B) 105th (C) 106th (D) 64th
28. Nikhil was facing East. He walked 6 km forward and then after turning to his right walked 2 km. Again he turned to his right and walked 6 km. After this, he turned back. Which direction he was facing at that time?
 (A) East
 (B) West
 (C) North
 (D) North-South
29. Six boys are standing in such a manner that they form a circle facing the centre. Anand is to the left of Ravi. Shankar is in between Ajay and Vivek. Iswar is between Anand and Ajay. Who is to the left of Vivek?
 (A) Ravi (B) Iswar
 (C) Ajay (D) Shankar

30. From the given alternatives, select the word which cannot be formed using the letters of the given word.
 CONSIDERATION
 (A) CONSIDER (B) CONCERN
 (C) NATION (D) RATION
31. In the following series, how many R are preceded by P and followed by D?
 MPDRNOPRDUXRDPDRDMNDRD
 (A) 4 (B) 3 (C) 2 (D) 1
32. If EARN is written as GCTP, how NEAR can be written in that code?
 (A) CTGP (B) GPTC
 (C) PGCT (D) PCGT
33. If $5 \times 4 = 15$, $7 \times 8 = 49$ and $6 \times 5 = 24$, what will 8×4 be?
 (A) 64 (B) 36 (C) 28 (D) 24
34. The given three equations follow some common property. Select the right option.
 $98 - 64 = 14$, $86 - 23 = 27$, $40 - 11 = ?$
 (A) 6 (B) 7 (C) 8 (D) 9
35. If AMPLIFY is written as YFILPMA in a certain code, how would NATIONAL be written in that code?
 (A) LANONATI (B) LANOITAN
 (C) LANTANIO (D) LANTION
36. The population of a developing country is increasing year by year. Find out the current year population from the following information :
- | Year | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|--------------|------|------|------|------|------|------|
| Pop. in lacs | 30 | 60 | 120 | 210 | 330 | ? |
- (A) 390 (B) 450 (C) 480 (D) 510
37. Gokul travelled 16 kms west ward, then he turned left and travelled 10 kms. Then he turned left and travelled 16 kms. How far was Gokul from the starting point?
 (A) 16 kms (B) 26 kms
 (C) 10 kms (D) 6 kms

38. In a code language, the following code is used for the alphabets in a particular way

A B C D E H I J O P R S T
 ✚ | ^ v > < ✚ † ⊥ Δ □ Σ ◇

Which word can be decoded from
 Δ ✚ ◇ ^ < ?

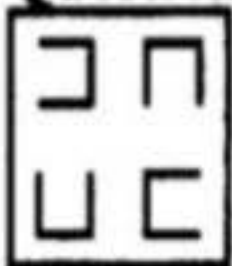
- (A) LATCH (B) PATIO
 (C) PATCH (D) LATER
39. Refer to the information provided below.
 'M + N' means 'M' is father of 'N'
 'M - N' means 'M' is daughter of 'N'
 'M × N' means 'M' is son of 'N'
 'M + N' means 'M' is wife of 'N'
 How is D related to G in the expression D - F + G ?
 (A) Wife (B) Son
 (C) Sister (D) Daughter
40. A nuclear fuel disintegrates as shown with time
 9.05 am - 32 g
 9.35 am - 16 g
 10.00 am - 8 g
 10.25 am - 4 g and left at 11.40 am

- (A) 2 g (B) 1g
 (C) 500 mg (D) .5 mg

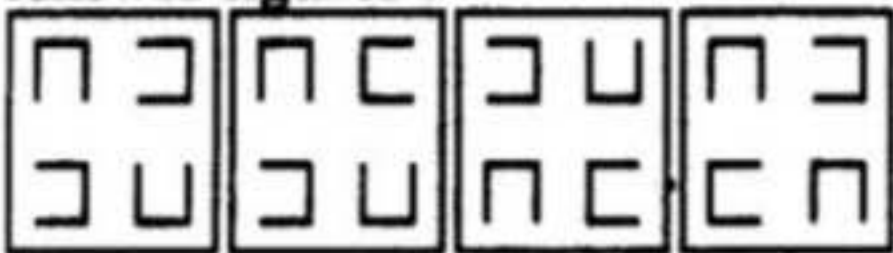
41. If '+' is written as '-', '-' is written as '+', '+' is written as '×', '×' is written as '+', then find the value of $100 + 60 - 6 + 2 \times 8$.
 (A) 20 (B) 632 (C) 140 (D) 88

42. Find out the mirror image of the given figure.

Question figure :



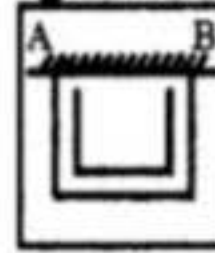
Answer figures :



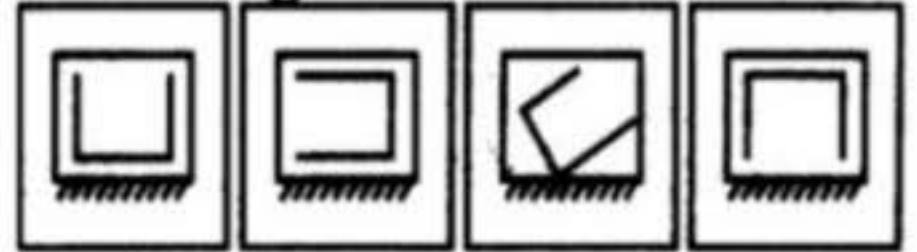
- (A) (B) (C) (D)

43. Which of the answer figures is the mirror image of the given figure if the mirror is held at AB ?

Question figure :



Answer figures :



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

44. In which figure all the specified components of the key figure are found ?

Question figure :

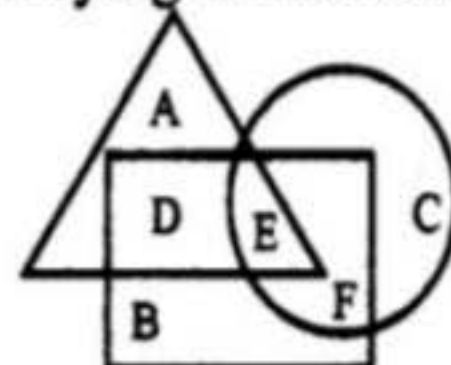


Answer figures :



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

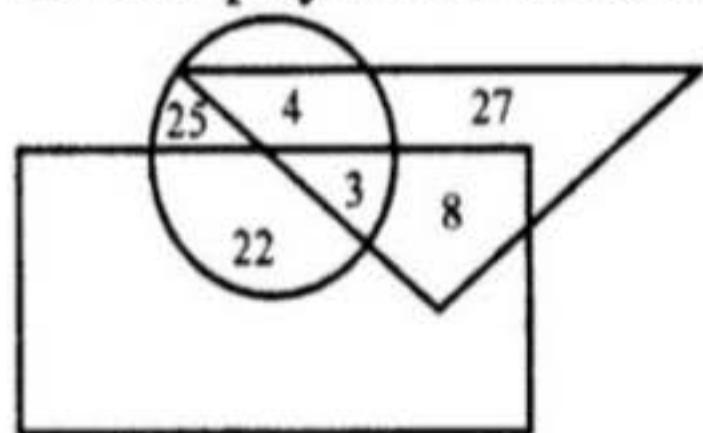
45. In the given figure, the triangle represents girls studying in a girls school, square represents boys studying in boys school and circle represents students studying in matriculation school. The portion which represent girls and boys studying in matriculation school is



A : Girls
 B : Boys
 C : Matric

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

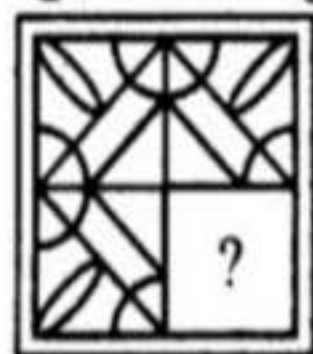
46. The triangle represents doctors. The circle represents players and rectangle represents artists. How many doctors are both players and artists ?



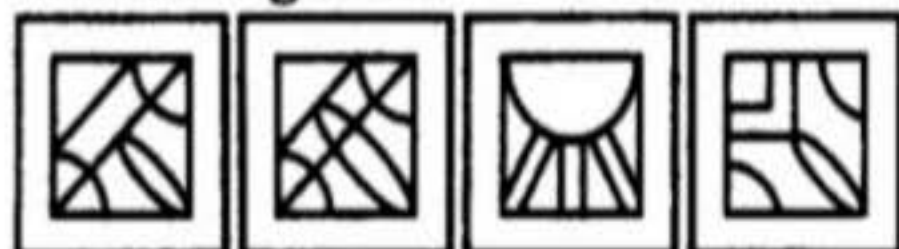
- (A) 4 (B) 8
(C) 3 (D) 11

47. Which answer figure will complete the pattern in the question figure ?

Question figure :



Answer figures :



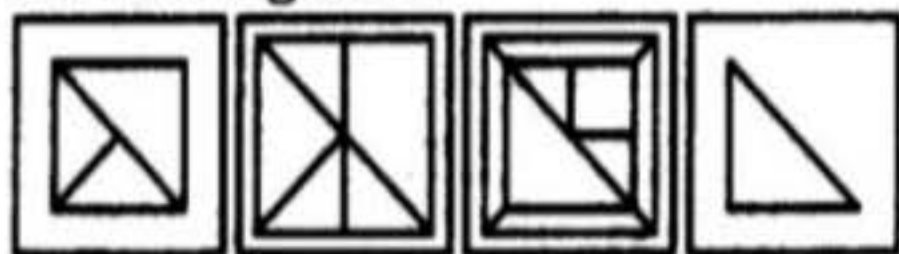
- (A) (B) (C) (D)

48. Which of the answer figures is embedded in the question figure ?

Question figure :



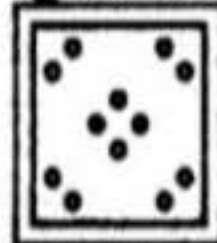
Answer figures :



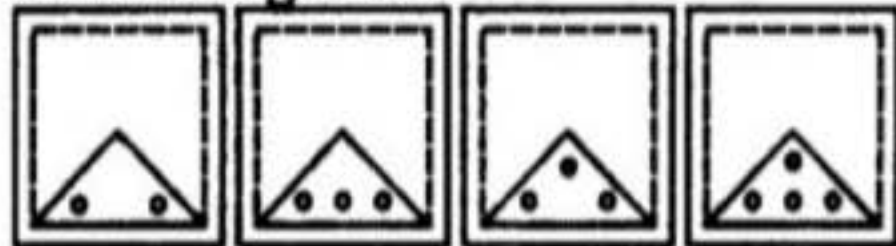
- (A) (B) (C) (D)

49. A sheet of paper is folded in a particular manner, punched once and then unfolded. Punched, unfolded paper appears as in the given figure. Find out the manner in which the paper was folded and punched by choosing the correct answer figure.

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., 'F' can be represented by 01, 13, etc., and 'P' can be represented by 66, 78, etc. Similarly, you have to identify the set for the word 'MEN'.

Matrix I

| | | | | | |
|---|---|---|---|---|---|
| | 0 | 1 | 2 | 3 | 4 |
| 0 | E | F | G | H | I |
| 1 | H | I | E | F | G |
| 2 | F | G | H | I | E |
| 3 | I | E | F | G | H |
| 4 | G | H | I | E | F |

Matrix II

| | | | | | |
|---|---|---|---|---|---|
| | 5 | 6 | 7 | 8 | 9 |
| 5 | L | M | N | O | P |
| 6 | O | P | L | M | N |
| 7 | M | N | O | P | L |
| 8 | P | L | M | N | O |
| 9 | N | O | P | L | M |

- (A) 56, 30, 69 (B) 55, 31, 95
(C) 75, 00, 95 (D) 76, 00, 88

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42. If D becomes A and P becomes M, what will K become in the English alphabet ?

- (A) O (B) H
(C) L (D) J

43. If a female mosquito lays 200 eggs at a time of which 80% develops into larva. 60% of larva do not survive to adulthood. How many reproductive cycles produce 1000 adult mosquitos ?

- (A) 5 (B) 11
(C) 16 (D) 13

44. Find the missing term.

D G K _ V C

- (A) L (B) N
(C) S (D) P

Directions : In Question Nos. 45 and 46, find the odd number/word from the given alternatives.

45. (A) 3 - 975 (B) 4 - 960
(C) 5 - 990 (D) 6 - 986

46. (A) Gold
(B) Silver
(C) Diamond
(D) Platinum

47. If M A N E I K S T P R is written as 0 1 2 3 4 5 6 7 8 9, how will INTEREST be written ?

- (A) 42739367
(B) 42379376
(C) 42377936
(D) 42377639

48. If "Dentist" is related to "teeth", the "Dermatologist" is related to _____

- (A) Eyes
(B) Ears
(C) Skin
(D) Lungs

49. A man is facing North West. He turns 90° in the clockwise direction then 180° in the anticlockwise direction and then another 90° in the same direction. Which direction is he facing now ?

- (A) West
(B) South
(C) South West
(D) South East

50. Give the next term of the series :
2, 11, 27, 52, 88, _____

- (A) 104
(B) 99
(C) 137
(D) 169

GENERAL AWARENESS

51. New Economic Policy was introduced in India in
 (A) 1971 (B) 1981
 (C) 1991 (D) 2001
52. Which of the following is NOT an instrument of credit control used by the Central Bank ?
 (A) Bank rate
 (B) Open market operations
 (C) Selective credit controls
 (D) Foreign exchange controls
53. In which type of economy National Income and Domestic Income is equal ?
 (A) Closed Economy
 (B) Open Economy
 (C) Developed Economy
 (D) Developing Economy
54. The term Capital Consumption Allowance (CCA) means
 (A) A part of income used for consumption.
 (B) Increase in the value of capital-assets.
 (C) Depreciation value of capital goods.
 (D) A fund used to purchase machinery for the production of consumption goods.
55. In the following, who is a self employed person ?
 (A) Teacher teaching in a school
 (B) Doctor appointed in hospital
 (C) Railway employee
 (D) Businessman
56. Who rules the State in the event of declaration of emergency under Article 356 ?
 (A) Prime Minister
 (B) Chief Minister
 (C) Governor
 (D) Chief Justice of the High Court
57. National Commission for Backward Classes was set up in
 (A) 1991 (B) 1992
 (C) 1993 (D) 1994
58. Official language of the Indian Union is
 (A) Hindi in Devanagari script
 (B) Hindi and English
 (C) English
 (D) Hindi, English and Urdu
59. Panchayatraj form of rural government was first adopted by
 (A) Rajasthan & Madhya Pradesh
 (B) Rajasthan & West Bengal
 (C) Rajasthan & Andhra Pradesh
 (D) Rajasthan & Uttar Pradesh
60. The Constitution of India provides for citizenship by
 (A) Birth
 (B) Residence
 (C) Naturalization
 (D) All of the above
61. Who assumed the title Muhammad-bin-Tuglak and became the ruler of Delhi in 1325 A.D ?
 (A) Juna Khan
 (B) Nasiruddin Shah
 (C) Chengiz Khan
 (D) Iltutmish
62. The Sikh Guru put to death by Aurangzeb was
 (A) Arjun Singh
 (B) Har Gobind
 (C) Tegh Bahadur
 (D) Har Kishan
63. The Home Rule Movement in India was started by
 (A) S.N. Banerjee and W.C. Banerjee
 (B) Annie Besant and Tilak
 (C) Mahatma Gandhi and Motilal Nehru
 (D) Annie Besant and Gokhale
64. Who among the following was responsible for the revival of Hinduism in 19th Century ?
 (A) Swami Dayanand
 (B) Swami Vivekanand
 (C) Guru Shankaracharya
 (D) Raja Ram Mohan Rai
65. "Give me blood, I will give you freedom." These words are attributed to
 (A) Khudiram Bose
 (B) Bhagat Singh
 (C) Subhash Chandra Bose
 (D) Veer Savarkar

66. India's northern most latitude is
 (A) $36^{\circ}6' N$ (B) $37^{\circ}8' S$
 (C) $37^{\circ}6' N$ (D) $8^{\circ}4' N$
67. The Bhabar plains have been developed by
 (A) glacial deposit
 (B) wind deposit
 (C) river deposit
 (D) deposition in the lakes
68. Subsistence type of farming is practised in
 (A) Delta (B) Plateau
 (C) Hill (D) Coast
69. Africa is separated from Europe by _____.
 (A) Red Sea
 (B) Mediterranean Sea
 (C) Atlantic Ocean
 (D) Persian Gulf
70. Which one of the following rivers is recharged by subsoil water?
 (A) Godavari (B) Damodar
 (C) Narmada (D) Krishna
71. The dolphin is
 (A) Fish (B) Reptile
 (C) Mammal (D) Turtle
72. Animals which have a well marked digestive cavity are put under
 (A) Metazoa (B) Bryozoa
 (C) Parazoa (D) Enterozoa
73. Mushrooms are
 (A) Fungi (B) Viruses
 (C) Bacteria (D) Protozoans
74. Which one of the following is an endocrine as well as an exocrine gland?
 (A) Pituitary (B) Thyroid
 (C) Pancreas (D) Parathyroid
75. Which one of the following is associated with kidney disorder?
 (A) Ventilator (B) Dialysis
 (C) Pacemaker (D) Baropacing
76. Most important function of the food is to
 (A) get energy
 (B) satisfy hunger
 (C) help growth of the body
 (D) relish the taste
77. A racing car is designed to have a broad base and low height such that its centre of gravity is
 (A) very low
 (B) in the middle
 (C) raised
 (D) outside the car
78. Energy transformation in a microphone is from
 (A) sound to electrical
 (B) electrical to sound
 (C) sound to mechanical
 (D) mechanical to sound
79. The time-period of a simple pendulum is independent of its
 (A) length
 (B) mass
 (C) location on the Earth
 (D) amplitude of vibration
80. What happens when some charge is placed on a soap bubble?
 (A) Its radius decreases
 (B) Its radius increases
 (C) The bubble collapses
 (D) The bubble expands
81. The last three letters of the domain name describes the type of
 (A) organization (B) connectivity
 (C) server (D) protocol
82. A RAM
 (A) is a random access memory.
 (B) is a volatile memory.
 (C) is either static or dynamic memory.
 (D) has all of the above characteristics.
83. Naturally occurring heaviest element is
 (A) aluminium (B) iron
 (C) silicon (D) uranium
84. Which of the following has the highest density?
 (A) Charcoal (B) Coke
 (C) Diamond (D) Graphite

85. When a gas expands to a region of low pressure, its temperature
 (A) increases
 (B) decreases
 (C) remains same
 (D) first increases, then decreases
86. Most of the explosions in mines occur due to the mixing of
 (A) hydrogen with oxygen
 (B) oxygen with acetylene
 (C) methane with air
 (D) carbon dioxide with ethane
87. Which of the following affects biodiversity?
 (A) Environmental pollution
 (B) Ocean acidification
 (C) Climate change
 (D) All of the above
88. What was Montreal Protocol concerned with?
 (A) Checking global warming
 (B) Checking ozone depletion
 (C) Both (A) and (B)
 (D) (A), (B) and protecting biodiversity
89. Formation of acid rain is due to
 (A) Water pollution
 (B) Noise pollution
 (C) Land pollution
 (D) Air pollution
90. Enormous population expansion has led to the problem of
 (A) Rising levels of atmospheric CO₂
 (B) Global warming
 (C) Increase in pollution level
 (D) All the above
91. Which of the following festivals is celebrated on Prophet Mohammed's birthday?
 (A) Id-ul-Zuha (B) Id-e-Milad
 (C) Id-ul-Fitr (D) Muharram
92. The Nobel Peace Prize is awarded in which city?
 (A) Brussels (B) Geneva
 (C) Oslo (D) Stockholm
93. Which one of the following pairs of cities have two Headquarters each of Indian Railway Zones?
 (A) Kolkata and Chennai
 (B) Kolkata and Mumbai
 (C) Mumbai and Secunderabad
 (D) Mumbai and Chennai
94. Which one of the following has recently conferred the Honorary Degree of Doctor of Letters (D.Lit.) on U.N. Secretary General, Ban-Ki-Moon?
 (A) Jamia Millia Islamia University
 (B) Lal Bahadur Shastri Sanskrit University
 (C) G.G.S. Indraprastha University
 (D) I.I.T., Delhi
95. Who amongst the following directed the award winning film "Tare Zamin Par"?
 (A) Madhur Bhandarkar
 (B) Salman Khan
 (C) Aamir Khan
 (D) Sanjay Leela Bhansali
96. The hill famous for treating mentally depressed persons in Tamil Nadu is
 (A) Nilgiri (B) Kutralam
 (C) Javadi (D) Anaimalai
97. Who among the following was the first Indian to receive the Nobel Prize?
 (A) Dr. C.V. Raman
 (B) V.S. Naipal
 (C) Mother Teresa
 (D) Rabindranath Tagore
98. Which of the following Twin city is correct?
 (A) Cochin - Ernakulam
 (B) Bangalore - Mysore
 (C) Mumbai - Pune
 (D) Chennai - Chingleput
99. Who said, "Inflation is unjust but deflation is inexpedient. Of the two, deflation is worse"?
 (A) J.M. Keynes
 (B) Amartya Sen
 (C) J.G. Gurlyay
 (D) J.N. Bhagwati
100. The civilian award bestowed by the President of India to persons for rendering exceptional and distinguished service in any field is
 (A) Bharat Ratna
 (B) Padma Shri
 (C) Padma Vibhushan
 (D) Padma Bhushan

QUANTITATIVE APTITUDE

101. $\left(\frac{1}{10}\right)^{\text{th}}$ of $\left(\frac{2}{4}\right)^{\text{th}}$ of a number is 240.

What is the number ?

- (A) 12 (B) 1200
(C) 4800 (D) 48

102. If $\sqrt{15 - x\sqrt{14}} = \sqrt{8} - \sqrt{7}$,
then the value of x is

- (A) 2 (B) $\sqrt{2}$
(C) 4 (D) 7

103. The next term of the series
325, 259, 204, 160, 127, 105,..... is

- (A) 95 (B) 94
(C) 102 (D) 101

104. The simplified form of $\frac{17 + 12\sqrt{2}}{3 + 2\sqrt{2}}$ is

- (A) $11\frac{2}{3}$ (B) 19
(C) $3 + 2\sqrt{2}$ (D) $3 - 2\sqrt{2}$

105. The least number which must be
subtracted from 2361 to make it a
perfect square is

- (A) 77 (B) 67
(C) 57 (D) 47

106. A and B can together do a piece of
work in 6 days. If B can do the work
by himself in 8 days, how many days
will A take to do the work
independently ?

- (A) 24 days (B) 14 days
(C) 2 days (D) 22 days

107. A does half as much work as B, and
C does half as much work as A and B
together. If C alone can finish the
work in 40 days, then all together
will finish the work in

- (A) $13\frac{1}{3}$ days (B) 15 days
(C) 20 days (D) 30 days

108. A dealer buys a table listed at ₹ 1,500
and gets successive discounts of 20%
and 10%. He spends ₹ 20 on
transportation and sells it at a profit of
20%. The selling price of the table is

- (A) ₹ 1,320 (B) ₹ 1,350
(C) ₹ 1,360 (D) ₹ 1,380

109. A pair of articles was bought for
₹ 37.40 at a discount of 15%. What
must be the marked price of each of
the articles ?

- (A) ₹ 11 (B) ₹ 44
(C) ₹ 33 (D) ₹ 22

110. In a relief camp of 550 men, the food
was enough for 28 days. If 150 more
people joined in the camp, the same
amount of food will be enough for

- (A) 22 days (B) 35 days
(C) 25 days (D) 10 days

111. A bag contains ₹ 121 in the form of
1 rupee, 50 paise and 25 paise coins
in the ratio 1 : 2 : 3. Find the number
of each type of coins (1Re, 50P, 25P
respectively).

- (A) 40, 92, 140 (B) 42, 92, 132
(C) 45, 90, 132 (D) 44, 88, 132

112. There were 984 mangoes on 12 trees
of a mango-garden. What will be the
average number of mangoes per tree
after taking down 26 mangoes in
average from 5 trees and 38 mangoes
in average from 7 trees ?

- (A) 53 (B) 49 (C) 45 (D) 39

113. The average age of a class is 15.8 years. The average age of the boys in the class is 16.4 years, while that of the girls is 15.4 years. What is the ratio of boys to girls in the class?
 (A) 1 : 2 (B) 3 : 4
 (C) 3 : 5 (D) None of these
114. A man sells an article at a profit of 25%. If he had bought it at 20% less and sold it for ₹ 10.50 less, he would have gained 30%. Find the cost price (in rupees) of the article.
 (A) 50 (B) 20 (C) 25 (D) 35
115. Rahul had 200 mangoes. He sold 30 mangoes at 25% gain, 40 mangoes at 20% gain, 60 mangoes at 10% gain and 70 mangoes at 10% loss. His net gain/loss percentage is
 (A) 7% gain (B) 7% loss
 (C) $7\frac{1}{4}\%$ gain (D) $7\frac{1}{4}\%$ loss
116. 13% of a number exceeds 5% of the same by 16. The number is
 (A) 500 (B) 450 (C) 300 (D) 200
117. If A's salary is $33\frac{1}{3}\%$ less than B's salary, by how much percentage is B's salary more than A's?
 (A) 20 (B) 25 (C) 50 (D) $16\frac{2}{3}$
118. An aeroplane covers a certain distance at a speed of 240 km/hr in 5 hours. To cover the same distance in $1\frac{2}{3}$ hours, it must travel at a speed (in km/hr) of
 (A) 300 (B) 360 (C) 600 (D) 720
119. ₹ 25,000 is borrowed at compound interest at the rate of 3% for the first year, 4% for the second year and 5% for the third year. The amount to be paid after 3 years is
 (A) ₹ 28,119 (B) ₹ 29,118
 (C) ₹ 28,129 (D) ₹ 28,117
120. If the diameter of a circle is increased by 100%, its area is increased by
 (A) 300% (B) 400%
 (C) 100% (D) 200%
121. The perimeter of an isosceles triangle is 18 cm. Its lateral side and the base are in the ratio 7 : 4. The area of the triangle is
 (A) $8\sqrt{5}$ cm² (B) $6\sqrt{5}$ cm²
 (C) $4\sqrt{5}$ cm² (D) $10\sqrt{5}$ cm²
122. Areas of three adjacent faces of a rectangular parallelepiped are 12 sq.m., 15 sq.m. and 20 sq.m. The volume (in cu.m.) of the parallelepiped is
 (A) 80 (B) 30 (C) 40 (D) 60
123. If the volumes of two cones are in the ratio 1 : 4 and the diameters of their bases are in the ratio 4 : 5, then the ratio of their heights is
 (A) 1 : 25 (B) 25 : 16
 (C) 16 : 125 (D) 25 : 64
124. The length of a hollow thick cylindrical metallic pipe is 6 cm and its total surface area including the surface at the ends is 98π sq. cm. If the outer diameter is 8 cm, then the inner diameter in cm is
 (A) 6.5 (B) 7 (C) 5 (D) 6
125. An open box is made of wood 3 cm thick. Its external dimensions are 1.36 m, 1.06 m and 8.3 dm. The cost of painting the inner surface of the box at 50 paise per 100 sq. cm (in ₹) is
 (A) 232 (B) 246 (C) 249 (D) 256
126. A spherical ball of lead 3 cm in diameter is melted and recast into three spherical balls. The diameter of two of these are 1.5 cm and 2 cm respectively. The diameter of the third ball is
 (A) 1.4 cm (B) 1.8 cm
 (C) 2.1 cm (D) 2.5 cm