

Part - I : General Intelligence

1. Eight friends A, B, C, D, E, F, G and H are sitting around a round table in the same order at equal distance. Their positions are in clockwise direction. If G, who is sitting in the North exchange seat with C, and B exchange seat with F. Now who is sitting to the right of F?

- A. G
- B. E
- C. A
- D. B

2. If FATHER is coded as FBTIES, what should be the code for the word SISTER?

(A) SJSUES

(B) SKSVET

(C) SHSSEQ

(D) TJTUPS

Directions : In the following 9 questions, find the odd word / number / letters / number pair from the given alternatives.

3. Find the odd letters.

- A. EGI
- B. BDE
- C. MOQ
- D. LNP

4. Find the odd letters.

- A. VNHK
- B. NQMJ
- C. NBJM
- D. MONR

5. Find the odd word.

- A. Elope
- B. Degrade
- C. Abase
- D. Humiliate

6. Find the odd letters.

- A. AC

- B. BD
- C. CD
- D. DF

7. Find the odd word.

- A. M.L.A
- B. Prime Minister
- C. President
- D. Minister

8. Find the odd number.

- A. 56
- B. 2
- C. 128
- D. 16

9. Find the odd word.

- A. Swing
- B. Google
- C. Bouncer
- D. Yorker

10. Find the odd number.

- A. 49
- B. 36
- C. 65
- D. 100

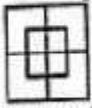
11. Find the odd number.

- A. 67626
- B. 84129
- C. 32418
- D. 47632

12. Form the given answer figures, select the one in which the question figure is hidden/embedded.

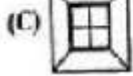
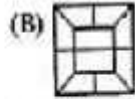
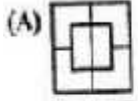
Question Figure:

प्रश्न आकृति:



Answer Figures:

उत्तर आकृतियाँ:



13. In a certain code COVENTIONAL is written as NOCNEVITLAN. How is ENTHRONEMENT in that code written?

- A. TNEORHMENTNE
- B. TNEROHEMNTNE
- C. TNEORMETNHNE
- D. TNEROHEMNNTE

Directions : In the following 9 questions, select the related word/letters/number from the given alternatives.

14. Bullock : Cart :: Horse : ?.

- A. Plough
- B. Ride
- C. Race
- D. Tonga

15. Motor : Coil :: ?.

- A. Wheel : Bearing
- B. Regiment : Soldier
- C. Table : Chair
- D. Wheel : Car

16. Blacksmith : Hammer :: ?.

- A. Pen : Writer
- B. Carpenter : Word
- C. Surgeon : Forceps
- D. Cloth : Tailor

17. CAT : DDY :: BIG : ?.

- A. CML
- B. CLL
- C. CEP
- D. CLM

18. EAGLE: FCJPP :: CRAWL : ?.

- A. DTDAQ
- B. DTEZQ
- C. DTDBRC
- D. DTFRC

19. CEGI : DHLP ;; KSEA : ?.

- A. LTGI
- B. LSGF
- C. LUIH
- D. LVJH

20. 4 : 19 :: 7 : ?.

- A. 49
- B. 52
- C. 28
- D. 28

21. 4863 - 2436 :: 8132 - 4261 ::

- A. 5926 - 1813
- B. 8346 - 4623
- C. 6214 - 3122
- D. 9842 - 8421

22. 556 : 186 :: 951 : ?.

- A. 217
- B. 176
- C. 317
- D. 286

23. A was twice as old as B, two years ago. If the difference in their ages be 2 years, find A's age.

- A. 8
- B. 10
- C. 4

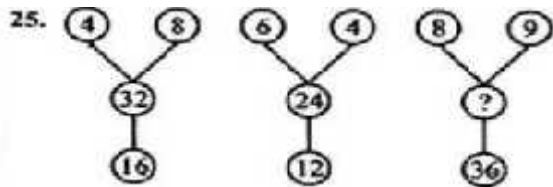
D. 6

24. 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., A can be represented by 02, 11 etc, and L can be represented by 56, 67 etc. Similarly, you have to identify the set for the word BEARD.

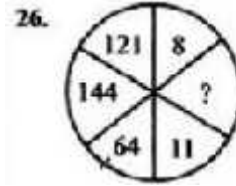
Matrix/आव्यूह - I					Matrix/आव्यूह - II						
	0	1	2	3	4		5	6	7	8	9
0	S	P	A	R	E	5	D	L	I	U	B
1	P	A	R	E	S	6	B	D	L	I	U
2	A	R	E	S	P	7	U	B	D	L	I
3	R	E	S	P	A	8	I	U	B	D	L
4	E	S	P	A	R	9	L	I	U	B	D

- A. 87, 13, 43, 21, 88
- B. 88, 13, 43, 44, 21
- C. 88, 87, 43, 21, 13
- D. 87, 13, 43, 88, 21

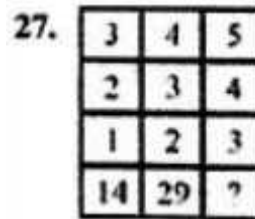
Directions : In the following 4 questions, select the missing number from the given responses.



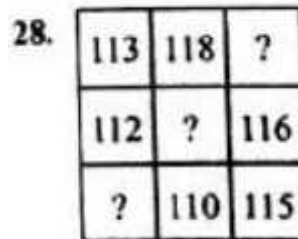
- A. 42
- B. 56
- C. 72
- D. 18



- A. 12
- B. 14
- C. 8
- D. 9



- A. 32
- B. 40
- C. 30
- D. 50

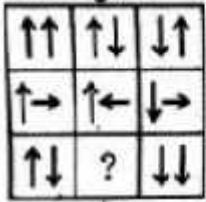


- A. 111, 114, 117
- B. 117, 109, 111
- C. 114, 111, 117
- D. 109, 111, 117

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

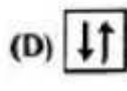
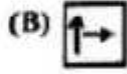
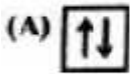
Question Figure:

प्रश्न आकृति :



Answer Figures:

उत्तर आकृतियाँ :



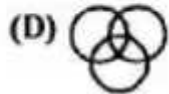
30. If 0, 1, 2, 3, ..., 9 is written as a, b, c, d, ..., j, then find $dc \times f - (bf - d) \times d$.

- A. abc
- B. bcf
- C. abb
- D. bce

31. Suresh walked 7 km east and turned to his left walked 4 kms. He then turned to his right and walked 5 kms. He then turned to his right and walked 5 kms. Finally, he again turned to his right and walked 4 kms. In which direction is he now, from his starting point?

- A. East
- B. West
- C. North
- D. South

32. Which combination figure best represents the relationship between mosquitoes, ants and insects?



Directions : In the following 2 questions, from the given alternative words. select the word which cannot be formed using the letters of the given word.

33. SYNTHESIS

- A. THEN
- B. STORY
- C. THESIS
- D. THIS

34. MANIPULATE

- A. POLLUTE
- B. PINT
- C. MANTLE
- D. PLATE

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

1. Stone
2. Sand
3. Rock
4. Boulder
5. Hill

- A. 2, 1, 3, 4, 5
- B. 1, 4, 2, 3, 5
- C. 5, 3, 2, 1, 4
- D. 5, 4, 2, 1, 3

Directions: In the following 2 questions, arrange the following words as per order in the dictionary.

36.

1. Electrolysis
2. Electrotyping
3. Electrician
4. Electroplating
5. Electrification

- A. 5, 3, 1, 4, 2
- B. 3, 5, 1, 4, 2
- C. 5, 3, 2, 4, 1

D. 3, 5, 4, 1, 2

37.

1. Yashmak
2. Yacht
3. Yawl
4. Yawn

- A. 2, 3, 4, 1
B. 2, 4, 3, 1
C. 2, 1, 3, 4
D. 2, 1, 4, 3

38. Identify the answer figure from which the pieces given in the question figure have been cut.

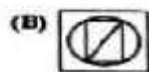
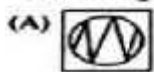
Question Figure:

प्रश्न आकृति:



Answer Figures:

उत्तर आकृतियों:



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

aac_bba_cc_baa_cb_

- A. abaac
B. cabcb
C. bacbc
D. bcacb

Directions: In the following 5 questions, a series is given, with one term missing, Choose the correct alternative from the given ones that will complete the series.

40. 8, 13, 18, 23, ?, 33, 38

- A. 23
B. 26
C. 33
D. 28

41. 1001, 1004, 1012, 1027, ?

- A. 1036
B. 1051
C. 1050
D. 1048

42. HIJQRDEF ? VW

- A. N
B. H
C. U
D. J

43. AC, EG, IK, ?

- A. ON
B. LM
C. MO
D. OP

44. 8, 24, ?, 80, 120

- A. 72
B. 54
C. 40
D. 48

Directions : In the following Two questions, two statements are given each followed by two conclusions I assumptions, I and II. You have to consider the statement to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions/ assumptions, if any, follows from the given statements.

45. **Statements**

I : Regular polygon has equal sides and equal angles.

II : Square is a regular polygon.

Conclusions

- I : Square has equal sides.
 II : Square has equal angles.

- A. Conclusion I follows.
 B. Conclusion II follows.
 C. Neither I nor II follows.
D. Conclusions I & II both follows.

46. Statements

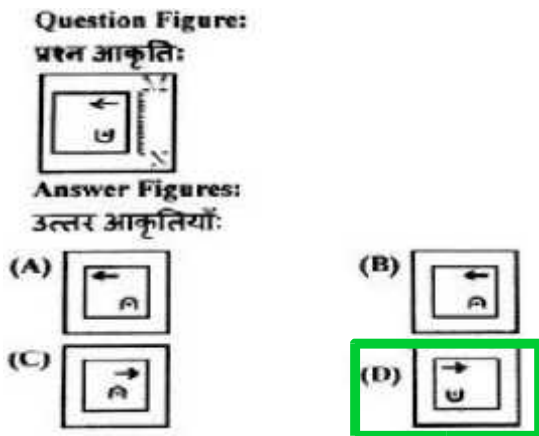
- I : The principal will address the students at 10 a.m.
 II : You are requested to take your seats before 10 a.m.

Assumptions

- I : If the student is not on his seat before 10 a.m., the function will not start.
 II : The function will start as scheduled.

- A. Assumption I is implicit.
 B. Both I and II are implicit.
C. Neither I nor II is implicit.
 D. Assumption II is implicit.

47. If a mirror is placed on the line MN. then which of the answer figures is the right image of the given figure?



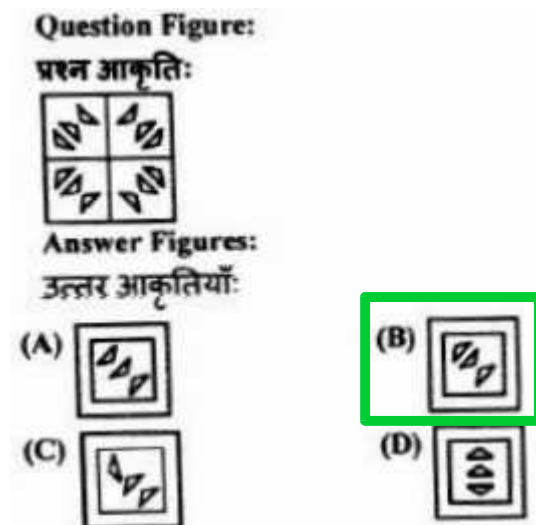
48. If in a business. Alok gains 75% more profit than Akash, then by what percentage profit of Akash is less than the profit of Alok?

- A. 42.85 %**
 B. 30.8 %
 C. 12.63 %
 D. 25 %

49. If # means <; O means > means = ; then which of the following follows definitely from a O b # c □ d?

- A. b # d**
 B. a □ c
 C. b □ d
 D. b O d

50. If a paper is folded in a particular manner and punch is made, when unfolded this paper appears as given below in the question figure. Find out the manner in which the paper is folded and the punch is made from the answer figures given.



Part -II : English Language

Directions : In the following Ten Questions, in the following passage some of the words have been left out. Read the passage carefully and choose the correct answer to each question out of the four alternatives and fill in the blanks.

Smile, they say, and soon there will be miles and miles of smiles. If we keep (i) ourselves and do not mix with others, we shall be left alone to ponder (ii) the misfortunes of life. Nobody likes to come across a (iii) and self-centred person. People (iv) gregarious and outgoing souls who are prepared to share their joys and sorrows and have the W to laugh (v) their problems and miseries. Laughter brings people (vi) whereas keeping to oneself distances people. It has (viii) been rightly said that laughter is the shortest distance between two persons. Once they (ix) together, the circle of acquaintance, and consequently friendship (x), thus making the world a happy place to live in.

51. (viii)

- A. so
- B. therefore
- C. hence
- D. however

52. (v)

- A. sense
- B. feeling
- C. capacity
- D. intention

53. (ii)

- A. into
- B. over
- C. upon
- D. at

54. (vii)

- A. apart
- B. home
- C. closer
- D. far

55. (iii)

- A. kind
- B. comic
- C. glum
- D. unselfish

56. (vi)

- A. on
- B. away
- C. at
- D. over

57. (iv)

- A. like
- B. dislike
- C. opt
- D. hate

58. (i)

- A. by
- B. to
- C. into
- D. with

59. (x)

- A. grows
- B. broadens
- C. widens
- D. lessens

60. (ix)

- A. come
- B. sit
- C. are
- D. go

Directions : In the following Four Questions, choose the word opposite in meaning to the given word and mark it in the Answer Sheet.

61. Resist

- A. Yield
- B. Remain
- C. Adjust
- D. Decline

62. Elementary

- A. Compound
- B. Complex
- C. Hard
- D. Involved

63. Accumulate

- A. Below
- B. Dismiss
- C. Disperse
- D. Aware

64. Concur

- A. Disagree
- B. Agree
- C. Praise
- D. Weak

Directions : In the following Four Questions, out of the four alternatives, choose the one which can be substituted for the. given words/sentences and indicate it by blackening the appropriate circle [•] in the Answer Sheet.

65. An act of misappropriation of money

- A. Debasement
- B. Misconduct
- C. Corruption
- D. Embezzlement

66. One who cannot make any mistake

- A. Illegible
- B. Invisible

- C. Inaudible
- D. Infallible

67. A person in charge of a museum

- A. Philatelist
- B. Curator
- C. Mayor
- D. Architect

68. The first public performance of a musical or theatrical work or the first showing of a film

- A. Premiere
- B. Preview
- C. Opener
- D. Debut

Directions : In the following Two Questions, a sentence has been given in Active/Passive Voice. Out of the four alternatives suggested, select the one which best expresses the same sentence in Passive/Active Voice and mark your answer in the Answer Sheet.

69. The agreement between the management and the workers was drafted by an advisory board.

- A. An advisory board had drafted the agreement between the management and the workers.
- B. An advisory board drafted the agreement between the management and the workers.
- C. The agreement between the management and the workers is being drafted by an advisory board.
- D. An advisory board is drafting the agreement between the management and the workers.

70. Put up the tent.

- A. The tent is being put up.
- B. Let the tent be put up.
- C. The tent has been put up.
- D. Let the tent being put up.

Directions : In the following Four Questions, the first and the last part of sentence are numbered I and 6. The rest of the sentence is split into four parts and named P, Q, R and S, These four parts are not given in their proper order. Read the sentence and find out which of the four combinations is correct. Then find the correct answer and indicate it in the Answer Sheet.

71.

1. The Narmada Dam Project
P. many of whom
Q. the most deprived sections
R. will displace some people
S. happen to belong to some of
6. of Indian society.

- A. PQRS
B. PSRQ
C. SRQP
D. RPSQ

72.

1. Television,
P. has become
Q. the most powerful medium
R. one of the marvels
S. of modern science,
6. of mass communication today.

- A. PQRS
B. RSQP
C. SRQP
D. RSPQ

73.

- I. While
P. I was walking
Q. with my brother
R. I met a monk
S. in the field
6. who was from Nepal.

- A. RSQP
B. RQSP
C. PQSR

D. PSQR

74.

- I. All religions show us the path
P. know that
Q. and wisemen
R. God is one
S. which leads to God
6. but the paths are different.

- A. SRQP
B. SQPR
C. QSPR
D. QPRS

Directions: In the following four Questions, a part of the sentence is underlined. Below are given alternatives to the underlined part which may improve the sentence. Choose the correct alternative. In case no improvement is needed blacken the circle [] corresponding to "No improvement".

75. Being a wet day, he stayed at home.

- A. Since
B. Though
C. No improvement
D. As it was

76. I shall write to you when I reach Agra.

- A. would write to you
B. No improvement
C. will write to you
D. should write to you

77. We've got a new big house.

- A. big new house**
B. house big new
C. No improvement
D. house new big

78. The President of India administers the oath of office to the Council of Ministers.

- A. reads out the oath

B. imposes the promise

C. No improvement

D. supervises the oath taking ceremony

Directions: In the following four Questions, 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 circle [] in the Answer Sheet.

79. Take care _____ your health.

A. of

B. about

C. for

D. over

80. The speeding car _____ a man this morning.

A. hit out

B. hit about

C. knocked down

D. pushed out

81. The terrorists made a vain attempt to _____ the bridge.

A. blow out

B. blow over

C. blow down

D. blow up

82. Politics is the last _____ of scoundrels.

A. resort

B. retort

C. report

D. result

Directions : In the following Four Questions, four alternatives are given for the Idiom I Phrase underlined. Choose the alternative which best expresses the meaning of the Idiom I Phrase and mark it in the Answer Sheet.

83. This argument does not hold water.

A. seem approvable

B. seem rejectable

C. seem acceptable

D. seem logical

84. The truant school boy told cock-and-bull stories to escape punishment.

A. interesting and thrilling

B. authentic and realistic

C. absurd and unbelievable

D. drab and boring

85. Rohini reached the examination hall in the nick of time.

A. just in time

B. just after time

C. just before time

D. very late

86. To be down to earth.

A. To be pretentious

B. To be impractical

C. To be unreasonable

D. To be realistic

Directions : In the following four Questions, some parts of the sentence have errors and some are correct. Find out which part of a sentence has an error and blacken the circle [] corresponding to the appropriate correct option. If a sentence is free from error, blacken the circle corresponding to "No error" in the Answer Sheet.

87. We, in India can look forward to a comfortable and settle life in the twenty-first century.

A. to a comfortable and settle

B. We, in India can look forward

C. No error

D. life in the twenty-first century.

88. One should have their teeth checked every six months.

- A. every six months.
- B. One should have
- C. No error
- D. their teeth checked.

89. A honest person is upright in speech, thought and deed.

- A. A honest person
- B. No error
- C. in speech. thought and deed.
- D. is upright

90. It is painful to saw that some youngsters are killing time without doing anything useful.

- A. It is painful to saw that
- B. killing time without doing anything useful.
- C. No error
- D. some youngsters are

Directions: In the following Two Questions, a sentence has given in Direct/Indirect. Out of the four alternatives suggested, select the one which best expresses the some sentence in Indirect/Direct and mark your answer in the Answer Sheet.

91. Robin said, "Hurrah! I have topped again."

- A. Robin exclaimed joyfully that he had been topped again.
- B. Robin exclaimed joyfully that he has topped again.
- C. Robin exclaimed joyfully that he had topped again.
- D. Robin exclaimed joyfully that he would have topped again.

92. Ravi asked me, "Have you seen the Taj Mahal ?"

- A. Ravi asked me if I saw the Taj Mahal.
- B. Ravi asked me did I see the Taj Mahal.
- C. Ravi asked me if I have seen the Taj Mahal.
- D. Ravi asked me if I had seen the Taj Mahal.

Directions: In the following Four Questions. out of the four alternatives. choose the one which best expresses the meaning of the given word and mark it in the Answer Sheet.

93. Mistake

- A. Precise
- B. Accurate
- C. Mistook
- D. Error

94. Acquire

- A. Lose
- B. Renounce
- C. Procure
- D. Relinquish

95. Filthy

- A. Clean
- B. Dirty
- C. Spotless
- D. Immaculate

96. Annoy

- A. Revoke
- B. Lazy
- C. Offend
- D. Refuse

Directions: In the following Four Questions, four words are given in each question, out of which only one word is correctly spell. find the correctly spell word and mark your answer in the Answer Sheet.

97. Find the correctly spelt word.

- A. Alkake
- B. Alkali
- C. Alkeli
- D. Alkalie

98. Find the correctly spelt word.

- A. Decesive

- B. Deciseev
- C. Decesieve
- D. Decisive

99. find the correctly spelt word.

- A. Amature
- B. Amateur
- C. Amateaur
- D. Amatuer

100. Find the correctly spelt word.

- A. Millennium
- B. Millenium
- C. Millanium
- D. Milennium

Part - III : Quantitative Aptitude

101. If $\sin(90^\circ - \theta) + \cos \theta = \sqrt{2} \cos(90^\circ - \theta)$, then the value of $\operatorname{cosec} \theta$ is

- (A) $\frac{1}{\sqrt{2}}$
 (B) $\sqrt{\frac{3}{2}}$
 (C) $\frac{2}{3}$
 (D) $\frac{1}{\sqrt{3}}$

102. A shopkeeper sold an article at a loss of 20% - Out if he could sell it at Rs. 200 more. he could earn a profit of 5%, The cost price of the article is

- A. Rs. 800
 B. Rs. 1000
 C. Rs. 1200
 D. Rs. 600

103. If ABCD is a cyclic quadrilateral with $\angle A = 50^\circ$, $\angle B = 80^\circ$. then $\angle C$ and $\angle D$ are

- A. $115^\circ, 115^\circ$
 B. $110^\circ, 120^\circ$
 C. $100^\circ, 130^\circ$
 D. $130^\circ, 100^\circ$

104. By melting two solid metallic spheres of radii 1 cm and 6 cm, a hollow sphere of thickness 1 cm is made. The external radius of the hollow sphere will be

- A. 6 cm
 B. 7 cm
 C. 9 cm
 D. 8 cm

105. The number between 4000 and 5000 that is divisible by each of 12, 18, 21 and 32 is

- A. 4302
 B. 4032
 C. 4023
 D. 4203

106. The side BC of a triangle ABC is proceed

to D. If $\angle ACD = 112^\circ$ and $\angle B = \frac{3}{4} \angle A$, then the measure of $\angle B$ is

- A. 45°
 B. 64°
 C. 43°
 D. 30°

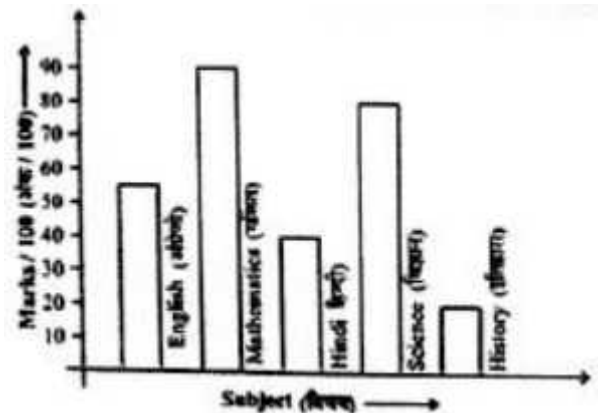
107. The measure of each interior, angle of a regular polygon with 8 sides is

- A. 100°
 B. 45°
 C. 120°
 D. 135°

108. A and n invest in a business in the ratio 3 : 2. If 5% of the total profit goes to charity and A's share in profit is Rs. 8,550, then total profit is

- A. Rs. 14,250
 B. Rs. 15,760
 C. Rs. 15,735
 D. Rs. 15,000

Directions: The bar graph is representing marks of a student in different subjects. Study



the bar graph and answer 5 questions.

109. In which subject the student is poor?

- A. Science
 B. English

C. History

D. Mathematics

110. What is the average percentage obtained by the student?

- A. 57%
- B. 80%
- C. 90%
- D. 63%

111. What is the ratio of the highest marks to the lowest marks obtained by the student ?

- A. 2:11
- B. 11:2
- C. 9:2
- D. 2: 9

112. What is the average marks obtained by the student?

- A. 63
- B. 57
- C. 80
- D. 48

113. At what subject the student is sharp?

A. Mathematics

- B. English
- C. History
- D. Science

114. If $\sin A - \cos A = \frac{\sqrt{3}-1}{2}$, then the value of $\sin A \cdot \cos A$ is

- A. 3/2
- B. 1/√3
- C. √3/2
- D. √3/4

115. A man gives 50% of his money to his son and 30% to his daughter. 80% of the rest is donated to a trust. If he is left with Rs. 16,000 now, how much money did he have in the

beginning?

- A. Rs. 8,00,000
- B. Rs. 4,00,000
- C. Rs. 40,000
- D. Rs. 80,000

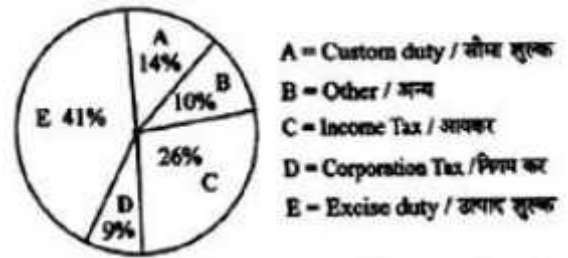
116. Two numbers are in ratio 5: 8. If their difference is 48, then the smallest number is

- A. 96
- B. 80
- C. 64
- D. 128

117. The value of $\cos 1^\circ \cos 2^\circ \cos 3^\circ \dots \cos 180^\circ$ is

- A. 1
- B. 0
- C. √3/2
- D. 1/2

Directions: Revenue earned by the Central Government is given in Pie-chart. Study the pie-chart and answer 4 questions.



118. The ratio of revenue earned from excise duty and custom duty to that of others is

- A. 11:5
- B. 11:2
- C. 11:3
- D. 11:4

119. If the percentage of revenue earned by the Central Government from Corporation Tax is x times to that of the percentage of money earned from Excise Duty, then the value of x is

- A. 14/41
- B. 41/14
- C. 9/41**
- D. 41/9

120. The ratio of revenue of the Central Government earned from the Custom Duty and Income Tax is

- A. 9: 26
- B. 10:9
- C. 14:41
- D. 7: 13**

121. If the income of Central Government from Excise Duty is Rs. 28,618 crores, then the total revenue earned by the government is

- A. Rs. 45,600 crores
- B. Rs. 47,200 crores
- C. Rs. 69,800 crores**
- D. Rs. 58,900 crores

122. Janardan completes $\frac{2}{3}$ of his work in 10 days. Time he will take to complete $\frac{3}{5}$ of the same work, is

- A. 9 day**
- B. 6 day
- C. 4 day
- D. 8 days

123. The simple interest on Rs. 36,000 for the period from 5th January to 31st May, 2013 at 9.5% per annum is

- A. 1,368**
- B. 1,425
- C. 1,400
- D. 1,338

124. The hypotenuse of a right-angled triangle is 39 cm and the difference of other two sides is 21 cm. Then, the area of the triangle is

- A. 540 sq.cm
- B. 270 sq.cm**
- C. 450 sq.cm
- D. 180 sq.cm

125. Work done by $(x + 4)$ men in $(x + 5)$ days is equal to the work done by $(x - 5)$ men in $(x + 20)$ days. Then the value of x is

- A. 25
- B. 30
- C. 15
- D. 20**

126. If $(2, 0)$ is a solution of the linear equation $2x + 3y = K$, then the value of K is

- A. 5
- B. 2
- C. 6
- D. 4**

127. The medians CD and BE of a triangle ABC intersect each other at O . The ratio of $\triangle ODE : \triangle ABC$ is equal to

- A. 1:12**
- B. 12:1
- C. 4:3
- D. 3:4

128. Two trains of lengths 150 m and 180 m respectively are running in opposite directions on parallel tracks. If their speeds be 50 km/hr and 58 km/hr respectively, in what time will they cross each other ?

- A. 30 seconds
- B. 15 seconds
- C. 22 seconds
- D. 11 seconds**

129. If the complement of an angle is one-fourth of its supplementary angle, then the angle is

- A. 120°
- B. 60°**
- C. 90°
- D. 30°

130.

If $\tan\left(\frac{\pi}{2} - \alpha\right) = \sqrt{3}$, then the value of $\cos \alpha$ is

(A) $\frac{\sqrt{3}}{2}$
 (C) $\frac{1}{\sqrt{2}}$

(B) $\frac{1}{2}$
 (D) 0

131. A number between 1000 and 2000 which when divided by 30, 36 & 80 gives a remainder 11 in each case is

- A. 1451
- B. 1641
- C. 1712
- D. 1523

132. 51% of a whole number is 714. 25% of that number is

- A. 450
- B. 550
- C. 250
- D. 350

133. Arrangement of the fractions

$\frac{4}{3}, -\frac{2}{9}, -\frac{7}{8}, \frac{5}{12}$ into ascending order are

(A) $-\frac{7}{8}, -\frac{2}{9}, \frac{5}{12}, \frac{4}{3}$

(B) $-\frac{2}{9}, -\frac{7}{8}, \frac{5}{12}, \frac{4}{3}$

(C) $-\frac{2}{9}, -\frac{7}{8}, \frac{4}{3}, \frac{5}{12}$

(D) $-\frac{7}{8}, -\frac{2}{9}, \frac{4}{3}, \frac{5}{12}$

134. The average marks of 50 students in a class is 72. The average marks of boys and girls in that subject are 70 and 75 respectively. The number of boys in the class is

- A. 35
- B. 25

- C. 20
- D. 30

135. After allowing 15% discount, the selling price of a radio becomes Rs. 255. The marked price is

- A. Rs. 500
- B. Rs. 600
- C. Rs. 300
- D. Rs. 400

136. A cuboidal shaped water tank, 2.1 m long and 1.5 m broad is half filled with water. If 630 litres more water is poured into that tank, the water level will rise

- A. 0.15 cm
- B. 0.18 cm
- C. 2 cm
- D. 0.20 metre

137. In a class there are 30 boys and their average age is 17 years. On one boy aged 18 years leaving the class and another joining, the average age becomes 16.9 years. The age of the new boy is

- A. 11 years
- B. 15 years
- C. 25 years
- D. 13 years

138. The difference between the greatest and least prime numbers which are less than 100 is

- A. 97
- B. 94
- C. 96
- D. 95

139. By selling 12 kg of potatoes for Rs. 63, a shopkeeper gains 5%. What does his gain or lose percent by selling 50 kg of the same potatoes for Rs. 247.50?

- A. No profit no gain
- B. 1% loss

- C. 2.5 % loss
- D. 1% profit

140. If the sum of all interior angles of a regular polygon is 14 right angles, then its number of sides is

- A. 7
- B. 9**
- C. 6
- D. 8

141.

If $\frac{a}{b} = \frac{25}{6}$, then the value of $\frac{a^2 - b^2}{a^2 + b^2}$ is

- | | |
|------------------------------|------------------------------|
| (A) $\frac{589}{661}$ | (B) $\frac{589}{651}$ |
| (C) $\frac{625}{36}$ | (D) $\frac{661}{589}$ |

142. Two trains start at the same time from Aligarh and Delhi and proceed towards each other at the rate of 14 km and 21 km per hour respectively. When they meet, it is found that one train has travelled 70 km more than the other. The distance between two stations is

- A. 350 km**
- B. 140 km
- C. 210 km
- D. 300 km

143. The list price of an electric fan is Rs. 300. If two successive discounts of 15% and 10% are allowed, its selling price would be

- A. Rs. 227.50
- B. Rs. 225
- C. Rs. 230
- D. Rs. 229.50**

144. Height of a prism-shaped part of a machine is 8 cm and its base is an isosceles triangle, whose each of the equal sides is 5 cm

and remaining side is 6 cm. The volume of the part is

- A. 90 cm
- B. 86 cm
- C. 120 cm
- D. 96 cm**

145. The value of the expression

$$\sqrt{6 + \sqrt{6 + \sqrt{6 + \dots + \text{upto } x}}}$$
 is

- A. 2
- B. 30
- C. 5
- D. 3**

146. If $A : B = 2 : 1$ & $A : C = 1 : 3$. then $A : B : C$

- A. 3 : 2 : 1
- B. 1 : 3 : 2
- C. 2 : 1 : 6**
- D. 1 : 2 : 6

147. The rate of simple interest per annum of bank being decreased from 5% to , the annual income of a person from interest was less by Rs. 105. The sum deposited at the bank was

- A. Rs. 7,000**
- B. Rs. 6,000
- C. Rs. 7,200
- D. Rs. 6,800

148.

$$\text{If } x + \frac{1}{x} = 3, \text{ then the value of } x^5 + \frac{1}{x^5} \text{ is}$$

- A. 132
- B. 110
- C. 122
- D. 123**

149. The graph of linear equation $y = x$ passes through the point

(A) $(0, \frac{3}{2})$

(B) $(1, 1)$

(C) $(-\frac{1}{2}, \frac{1}{2})$

(D) $(\frac{3}{2}, -\frac{3}{2})$

150. If $\cos 20^\circ = m$ and $\cos 70^\circ = n$, then the value of $m^2 + n^2$ is

(A) $\frac{1}{2}$

(B) 1

(C) $\frac{1}{\sqrt{2}}$

(D) $\frac{3}{2}$

Part – IV : General Awareness

151. Pawel Pawlikowski's film 'Ida' won the Best foreign Language Film Award at the 87th Academy Awards in 2015. This film is from which country?

- A. Canada
- B. Poland**
- C. Argentina
- D. South Africa

152. How many members are there in Public Accounts Committee?

- A. 28 members
- B. 20 members
- C. 22 members**
- D. 30 members

153. Who was the creator of the famous Rock Garden of Chandigarh?

- A. Nek Chand**
- B. Khuswant Singh
- C. Edward Baker
- D. Charles Corbusier

154. Who is the first Indian woman to win an Asian Games gold in 400 m runs?

- A. Sania Mirza
- B. P.T. Usha
- C. Shiny Abraham
- D. Kamaljit Sandhu**

155. Who invented the mobile phone?

- A. Chuck Hull
- B. Raymond Samuel Tomlinson
- C. Martin Cooper**
- D. Tim Berners - Lee

156. The basic unit of biosystematics is

- A. Florotype
- B. Genotype
- C. Phenotype**
- D. Ecotype

157. Who is the only second Vice-President of India to get a second consecutive term after S. Radhakrishnan?

- A. Dr. Shankar Dayal Sharma
- B. M.H. Ansari**
- C. K.R. Narayanan
- D. B.S. Shekhawat

158. The term GIGO is related to

- A. Flexibility
- B. Accuracy**
- C. Automatic
- D. Versatility

159. An organism that transmits disease from one individual to another is called

- A. Hybrid
- B. Clone
- C. Fragment
- D. Vector**

160. Which Indian ruler fought the Kalinga War?

- A. Ashoka**
- B. Chandragupta Maurya
- C. Shivaji
- D. Sarnudragupta

161. Which decade is called as the 'Era of Decolonisation' ?

- A. 1980's
- B. 1990's
- C. 1950's**
- D. 1970's

162. Name the Republic which was a confederacy of tribes in the 6th cen. B.C.

- A. Avanti
- B. Kosala
- C. Vajji**
- D. Gandhara

163. Who was the founder of the Indian

National Army?

- A. Gandhiji
- B. BaJ Gangadhar Tilak
- C. Subhas Chandra Bose
- D. Nehru

164. Which of the following is true with reference to blood platelets?

- A. They have prominent nuclei.
- B. They are also called thrombocytes.
- C. They have a pigment called haemoglobin.
- D. They are involved in phagocytosis.

165. Which of the following was the founder of the house of Peshawar?

- A. Balaji Vishwanath
- B. Parsuram Triamsuk
- C. Balaji Baji Rao
- D. Ramachandra Pant

166. An example of hormone is

- A. Oxytocin
- B. Renin
- C. Peprin
- D. Cytosine

167. Find the odd one:

- A. Samveda
- B. Vishnu Purana
- C. Rigveda
- D. Yajurveda

168. India's ranking on Global Corruption Index 2014 has been placed at _____ rank among 175 nations.

- A. 85th
- B. 83rd
- C. 87th
- D. 81st

169. What is the major cause of 'October Heat' ?

A. Low pressure systems over the Indo-Gangetic

- B. Hot and dry weather
- C. High temperature associated with high humidity
- D. Very low velocity winds

170. Kathakali dance form is associated with which State ?

- A. Andhra Pradesh
- B. Manipur
- C. Kerala
- D. Tamil Nadu

171. The 'EL Nino' phenomena which sparks climatic extreme around the globe, originates in the

- A. Atlantic Ocean
- B. Pacific Ocean
- C. Sea of China
- D. Indian Ocean

172. Which gas emitted by power stations causes acid rain?

- A. Nitrogen
- B. Carbon dioxide
- C. Sulphur dioxide
- D. Helium

173. Who won Australian Open Mixed Doubles Final 2015?

- A. Murray (U.K.) and Maria Sharapova (Russia)
- B. Djokovic (Serbia) and Serena Williams (U.S.A.)
- C. Kristina Mladenovic (France) and Daniel Nester (Canada)
- D. Martina Hingis (Switzerland) and Leander Paes (India)

174. The State with highest production of wheat in year 2012-13 is

- A. Tamil Nadu
- B. Uttar Pradesh**
- C. West Bengal
- D. Haryana

175. S.I. unit of Magnetic flux is

- A. weber – m²
- B. weber – m⁴
- C. weber**
- D. weber/m

176. Name the two research stations maintained by India in Antarctica.

- A. Sagar Nidhi and Yamunotri
- B. Gangotri and Himadri
- C. None of the
- D. Maitri and Bharti**

177. Which part of the cinchona yields a drug?

- A. Pericarp
- B. Endosperm
- C. Bark**
- D. Leaf

178. According to 2011 Census, the State having maximum population is

- A. Tamil Nadu
- B. Maharashtra
- C. Uttar Pradesh**
- D. Kerala

179. The process of arranging data in logical sequence is called

- A. Sorting**
- B. Reproducing
- C. Summarizing
- D. Classifying

180. What is the famous Chipko movement associated with?

- A. Trees**
- B. Saving the tigers
- C. Saving the wetland

D. Nooe of these

181. An ordinance issued by the Governor has to be passed by the Assembly within

- A. 10 weeks
- B. 12 weeks
- C. 8 weeks
- D. 6 weeks**

182. As a result of higher rate of inflation in India, the U.S. dollar will

- A. Constant
- B. Appreciate**
- C. Negligible
- D. Depreciate

183. Which endocrine gland is found in chest cavity?

- A. Thyroid gland**
- B. Adrenal gland
- C. Pineal gland
- D. Thymus gland

184. The number of hydrogen bonds between guanine and cytosine in DNA is

- A. 4
- B. 1
- C. 2
- D. 3**

185. A semi enclosed coastal body of water which has a free connection with the open sea is called

- A. Ria coast
- B. Estuary**
- C. Fjord
- D. Cove

186. As per Census of India, an Urban area with a population from 50,000 to 99,999 is named as

- A. Class IV town
- B. Class II town**
- C. Class I town

D. Class III town

187. To reduce tooth decay most toothpastes contain a

- A. Bromide
- B. Fluoride**
- C. Iodide
- D. Chloride

188. Who is the author of the book 'The Three Mistakes In My Life'?

- A. Chctan Bhagat**
- B. Jhumpa Lahiri
- C. Ruskin Bond
- D. Amrita Pritam

189. Hydraulic brakes work on the principle of

- A. Newton's law
- B. Thomson 's law
- C. Pascal's law**
- D. Bernoulli's theorem

190. The part of brain which controls emotional reactions in our body is

- A. Cerebrum
- B. Meninges
- C. Thalamus
- D. Hypothalamus**

191. If density of oxygen is 16 times that of hydrogen, what will be their corresponding ratio of velocity of sound?

- A. 1:4**
- B. 2:1
- C. 1:16
- D. 4:1

192. Seismography is the science of

- A. Mountains
- B. Earthquakes**
- C. Rivers
- D. Volcanoes

193. Cuba is the largest producer of

- A. Sugar**
- B. Barley
- C. Rice
- D. Wheat

194. Expand NABARD

- A. National Bank for Asian Research Development
- B. National Bank for Agricultural and Rural Development**
- C. National Bank for Agri Related Development
- D. National Bank for Agriculture and Resource Development

195. R.K. Laxman died on January 26, 2015. He was a leading _____ of India.

- A. Playback Singer
- B. Cartoonist**
- C. Kathakali Dancer
- D. Space Scientist

196. Who has authored the book 'The Kingdom of God is Within You'?

- A. Henry David
- B. John Ruskin
- C. Mahatma Gandhi
- D. Leo Tolstoy**

197. Which of the following colour of light deviates least through the prism?

- A. Yellow
- B. Green
- C. Red**
- D. Violet

198. A demand curve, which is parallel to the horizontal axis, showing quantity, as t e price elasticity equal to

- A. Less than one
- B. Infinity**
- C. One

D. Zero

199. Which city will host the 2022 Commonwealth Games (CWG)?

- A. Montreal
- B. Colombo
- C. Glasgow
- D. Durban

200. The deterioration of a metal by an electrochemical process is commonly termed as

- A. Corrosion
- B. Abrasion
- C. Erosion
- D. Passivation