

PART I : GENERAL INTELLIGENCE

Directions : In questions no. 1 to 7, select the related word/letters/number from the given alternatives.

1. FLRX : DJPV :: EKQW : ?
(A) WQKE (B) BHMT
(C) CIOU (D) AGMS
2. 4 : 17 :: 7 : ?
(A) 51 (B) 48
(C) 49 (D) 50
3. 45 : 9 :: 94 : ?
(A) 10 (B) 17
(C) 14 (D) 13
4. Squint : Vision :: Stammering : ?
(A) Tongue (B) Mouth
(C) Hearing (D) Speech
5. Racket : Tennis :: ?
(A) Bat : Cricket
(B) Ball : Football
(C) Glove : Cricket
(D) Board : Chess
6. Hand : Glove :: Head : ?
(A) Hair-pin (B) Hair
(C) Hat (D) Neck
7. TCEJBO : OBJECT :: TCEJORP : ?
(A) ROJECT (B) ROPJECT
(C) JCCTROP (D) PROJECT

Directions : In questions no. 8 to 11, find the odd words/letters/number pair from the given alternatives.

8. (A) Radish (B) Carrot
(C) Potato (D) Beetroot
9. (A) USPM (B) UROL
(C) QNKH (D) YVSP
10. (A) 120 - 90 (B) 106 - 36
(C) 76 - 46 (D) 86 - 56
11. (A) King : Queen
(B) Prince : Princess
(C) Vamp : Vampire
(D) Hero : Heroine

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

1. Ploughing 2. Weeding
3. Sowing 4. Harvesting
(A) 1, 2, 4, 3 (B) 1, 2, 3, 4
(C) 1, 3, 2, 4 (D) 2, 3, 1, 4

13. Arrange the following words according to the English Dictionary :

1. Voyage 2. Voice
3. Vocation 4. Volume
(A) 2, 4, 3, 1 (B) 3, 2, 4, 1
(C) 2, 3, 4, 1 (D) 3, 4, 2, 1

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

a _ bab _ ab _ abb

- (A) bba (B) baab
(C) aaa (D) bbb

15. Find out the set among the four sets which is like the given set.

(11 - 18 - 25)

- (A) (9 - 14 - 24) (B) (4 - 12 - 16)
(C) (19 - 26 - 33) (D) (18 - 28 - 33)

Directions : In questions no. 16 to 18, a series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.

16. FLA, GMB, HNC, IOD, ?

- (A) OTK (B) NSD
(C) JPE (D) TOE

17. 135, 226, 353, ?, 739

- (A) 722 (B) 522
(C) 622 (D) 632

18. 4, 7, 13, 22, 34, ?

- (A) 45 (B) 47
(C) 52 (D) 49

19. If day before yesterday was Sunday, what day will fall on day after tomorrow ?

- (A) Tuesday (B) Wednesday
(C) Thursday (D) Friday

20. If A = 1, AIR = 28, then RIB = ?
 (A) 26 (B) 28
 (C) 29 (D) 35

21. In the following series of English alphabets, how many 'a b c' occur in such a way that 'b' is in the middle and both 'a' and 'c' are on any one side.
 q b c a j l e h a i d a e c h k a m b c n o
 a b c p k d c r b c h a q g a b c f e b c t u
 (A) 2 (B) 6
 (C) 4 (D) 3

22. If 'PSYCHOLOGY' is coded as '9834215173', and 'SOCIOLOGY' is coded as '812015173', then 'PHILOSOPHY' can be coded as
 (A) 9105282913 (B) 9205182923
 (C) 9206181923 (D) 9205181923

23. Prakash jumps higher than Pinakin, but not as much as Ketan jumps. Rohan jumps lower than Pranav but not less than Ketan. Who jumps lowest?
 (A) Pranav (B) Pinakin
 (C) Ketan (D) Rohan

24. Leela and her grandmother differ in their ages by 60 years. After 10 years, if the sum of their ages is 100 years, what are their present ages?
 (A) 25, 85 (B) 20, 80
 (C) 10, 70 (D) 15, 75

25. Sarika is 19th from either end of a row of girls. How many girls are there in that row?
 (A) 19 (B) 38
 (C) 39 (D) 37

26. Mohan is husband of Sona. Sona is aunt of Shilpa. Ankit is brother of Sona. How is Ankit related to Mohan?
 (A) Brother-in-law (B) Uncle
 (C) Brother (D) Cousin

27. From the given alternatives select the word which **cannot** be formed using the letters of the given word.
 TRANSLATION
 (A) RATION (B) TRANSIT
 (C) TRANSMIT (D) NATION

28. If 'ETHICS' can be written as 'SECTIH', then how can 'AFECTION' be written?
 (A) NAOFITCE (B) NAOFETIC
 (C) NAOFICTE (D) NAOFIETC

29. Some letters are given below in the first line and numbers are given below them in the second line. Numbers are the codes for the alphabets and vice-versa. Choose the correct number-code for the given set of alphabets
 A F E H I K O M U R
 9 3 8 4 0 5 1 6 2 7
 M A E I O U
 (A) 698201 (B) 698102
 (C) 698012 (D) 698210

30. From the given alternatives select the word which can be formed using the letters given in the word.
 ONSLAUGHT
 (A) STRONG (B) HOUSE
 (C) GHOST (D) ENOUGH

Directions : In questions no. 31 and 32, select the missing number from the given responses.

31. 4 5 8
 3 7 2
 4 10 4
 48 200 64
 (A) 4 (B) 185
 (C) 40 (D) 20

32. 7 56 8
 9 63 7
 12 ? 5
 (A) 119 (B) 17
 (C) 25 (D) 60

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Directions : In questions no. 33 and 34, some equations are solved on the basis of a certain system. On the same basis, find out the correct answer for the unsolved equation.

33. If $6241 = 9$
and $3732 = 20$, then
 $4523 = ?$

- (A) 21 (B) 26
(C) 16 (D) 23

34. $2 \times 7 \times 5 = 327$, $1 \times 4 \times 9 = 914$,
 $6 \times 3 \times 8 = ?$ $* \times \div =$

- (A) 836 (B) 683
(C) 863 (D) 638

35. 'A' walks 10 m towards East and then 10 m to his right. Then every time turning to his left, he walks 5, 15 and 15 m, respectively. How far is he now from his starting point?

- (A) 20 m (B) 5 m
(C) 10 m (D) 15 m

36. Select the correct combination of mathematical signs to replace 'x' signs and to balance the given equation.

$$6 \times 5 \times 8 \times 4 \times 32$$

- (A) $- + \times \times$ (B) $+++ =$
(C) $\div + \times +$ (D) $\times + \div =$

37. If '+' means division, '-' means multiplication, 'x' means subtraction and '÷' means addition then,

$$(280 \div 10 \times 20) - 8 \div 6 = ?$$

- (A) 392 (B) 58
(C) 70 (D) 112

38. Seema started early in the morning on the road towards the Sun. After some time she turned to her left. Again after some time she turned to her right. After moving some distance she again turned to her right and began to move. At this time, in what direction was she moving?

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

Directions : In questions no. 39 and 40, two statements are given, followed by two conclusions I and II. You have to consider the statements to be true, even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follow from the given statements. Indicate your answer.

39. **Statements :**

This world is neither good nor bad. Each individual manufactures world for himself.

Conclusions :

- I. Some people find this world quite good.
II. Some people find this world quite bad.

- (A) Neither conclusion I nor II follows
(B) Only conclusion I follows
(C) Only conclusion II follows
(D) Both conclusions I and II follow

40. **Statements :**

All trams are prams. No pram can carry passengers.

Conclusions :

- I. No tram can carry passengers.
II. Some trams cannot carry passengers.

- (A) Neither conclusion I nor II follows
(B) Only conclusion I follows
(C) Only conclusion II follows
(D) Both the conclusions I and II follow

41. There are 120 students in a class. 25% of the students play volleyball. 40% of the remaining students play cricket. 50% of the remaining students play football. How many students in the class do not play any game?

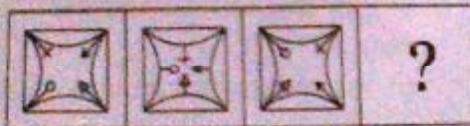
- (A) 32 (B) 29
(C) 30 (D) 27

42. Five girls E, F, G, H and I are standing in a row. H is on the right of G. I is on the left of G, but is on the right of F. H is on the left of E. Who is standing on the extreme right?

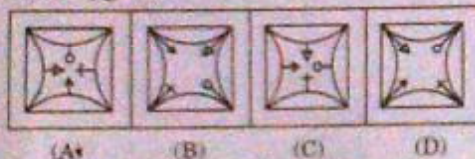
(A) E (B) F
(C) G (D) H

43. Choose the correct alternative from the given ones that will complete the series.

Question figures :

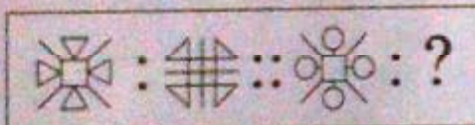


Answer figures :

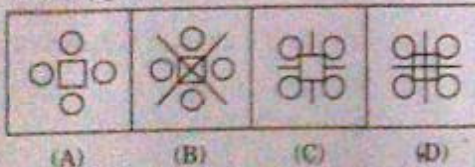


44. Select the related figure from the given alternatives.

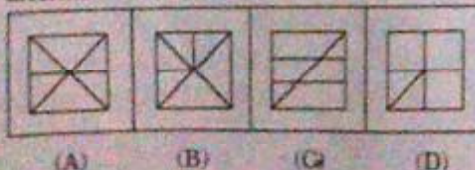
Question figures :



Answer figures :

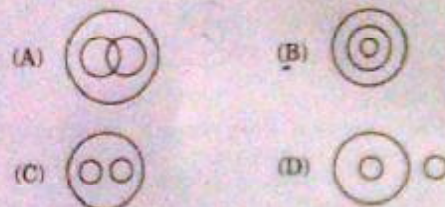


45. Find the odd figure from the given alternatives.



46. Identify the diagram that best represents the relationship among the classes given below :

Potato, Vegetables and Eatables

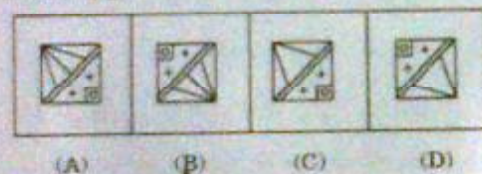


47. Which answer figure will complete the pattern in the question figure?

Question figure :



Answer figures :



48. Find the missing number from the given responses.



(A) 96 (B) 7
(C) 192 (D) 193

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

Question figure :



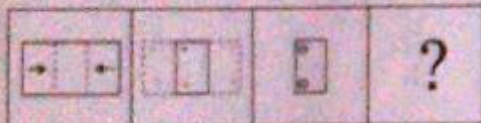
Answer figures :



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

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

Question figures :



Answer figures :



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

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43. Usha ranks 21st in a class of 37 students. What is her rank from the last ?

(A) 19 (B) 16
(C) 17 (D) 18

44. The sum of two numbers is 21 and their product is 90. Then sum of their squares will be ?

(A) 860 (B) 441
(C) 728 (D) 261

45. In the following series of numbers, how many 0's are followed by 9 and preceded by 5 ?

1091150920123281393
509481471675509515

(A) 4 (B) 7
(C) 3 (D) 5

46. LOVE is coded as 1357, and HATE is coded as 2467. What do the figures 6417 stand for ?

(A) LATE (B) HEAT
(C) LEAD (D) TALE

47. Find the wrong number in the given series from the given alternatives.

445, 221, 109, 46, 25

(A) 109 (B) 25
(C) 46 (D) 221

48. A sum of money is to be distributed among A, B, C, D in the proportion of 5 : 2 : 4 : 3. If C gets ₹ 1,000 more than D, what is B's share ?

(A) ₹ 2,500 (B) ₹ 500
(C) ₹ 1,500 (D) ₹ 2,000

49. If P stand for +, Q for ×, R for ÷ and G for -, then find the value of the following equation.

19 G 9 P 15 B 5 Q 2 = ?

(A) 49 (B) 16
(C) 20 (D) 32

50. In a peculiar mathematical operation, before any operation is started, the numbers are changed as under :

1 to 4 changed to 1

5 to 9 changed to 2

Zero remains zero.

Applying the above condition, find the answer of the following equation :

769 + 2085 + 6083 - 8306 = ?

(A) 2825 (B) 1163
(C) 1009 (D) 4033

PART II : ENGLISH LANGUAGE

Directions : In questions no. 51 to 55, some parts of the sentences have errors and some are correct. Find out which part of a sentence has an error and blacken the oval (●) corresponding to the appropriate letter (A, B, C). If a sentence is free from error, blacken the oval corresponding to (D) in the Answer Sheet.

51. My mother made / the servant to / complete the work. / No error.
(A) (B) (C) (D)
52. I want to get / a M.A. degree / from a reputed university located in India. / No error.
(A) (B) (C) (D)
53. Not only she makes / home-made cakes / she also sells them. / No error.
(A) (B) (C) (D)
54. Pandit Hariprasad Chaurasia played / a flute at the Music Conference / in a small town. / No error.
(A) (B) (C) (D)
55. They are / ignorant of / what is happening here. / No error.
(A) (B) (C) (D)

Directions : In questions no. 56 to 60, 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 oval (●) in the Answer Sheet.

- | | |
|---|--|
| <p>56. They tried to bribe the peon but he _____ them.
(A) was clever for
(B) has been too clever for
(C) was too clever for
(D) was being clever for</p> <p>57. She asked me _____.
(A) what the time was
(B) what was the time
(C) what is the time
(D) what was time</p> | <p>58. A legislation was passed to punish brokers who _____ their clients' funds.
(A) defalcate (B) devastate
(C) devour (D) embezzle</p> <p>59. He fell down a flight of stairs and broke _____ rib.
(A) up (B) a
(C) the (D) his</p> <p>60. The doctors and the nurses worked hard to _____ the dying man.
(A) bring round (B) bring up
(C) bring out (D) bring back</p> |
|---|--|

Directions : In questions no. 61 and 62, out of the four alternatives, choose the one which best expresses the meaning of the given word and mark it in the Answer Sheet.

61. Forsake

- (A) Separate (B) Abandon
(C) Forego (D) Disintegrate

62. Stratagem

- (A) Strait (B) Stratum
(C) Ruby (D) Trick

Directions : In questions no. 63 and 64, choose the word opposite in meaning to the given word and mark it in the Answer Sheet.

63. Keen

- (A) Immobile (B) Impassioned
(C) Indifferent (D) Clever

64. Dreary

- (A) Interesting (B) Solitary
(C) Dribble (D) Unusual

Directions : In questions no. 65 and 66, four words are given in each question, out of which only one word is correctly spelt. Find the correctly spelt word and mark your answer in the Answer Sheet.

65. (A) hippopotomous (B) hipopotamus
(C) hippopotamus (D) hippopatemus

66. (A) privalage (B) privelege
(C) privilege (D) priviledge

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Directions : In questions no. 67 to 69, four alternatives are given for the Idiom/Phrase underlined in the sentence. Choose the alternative which best expresses the meaning of the Idiom/Phrase and mark it in the Answer Sheet.

67. They earn so little that it is very difficult for them to keep the wolf from the door.

- (A) to display the wolf before the door
(B) have less money to avoid hunger and need
(C) have enough money to avoid hunger and need
(D) to hide the wolf behind the door

68. Arvind finally got through with his doctoral thesis.

- (A) was awarded his doctoral degree
(B) finally cleared his last examination
(C) left the thesis half way through
(D) finally finished his thesis after hard toil

69. We could sit here and talk till the cows come home.

- (A) if the cows come home slowly
(B) for a very long time
(C) for a very short span of time
(D) if the cows come home quickly

Directions : In questions no. 70 to 72, out of the four alternatives choose the one which can be substituted for the given words/sentence.

70. That which cannot be consumed by fire.

- (A) Invincible (B) Inflammable
(C) Inexhaustible (D) Incombustible

71. A place of shelter for ships.

- (A) Barrack (B) Helipad
(C) Port (D) Harbour

72. A shopkeeper who sells fresh and green vegetables.

- (A) Greengrocer (B) Butcher
(C) Shopkeeper (D) Vendor

Directions : In questions no. 73 and 74, a part of the sentence is underlined. Below are given alternatives to the underlined part at (A), (B), (C) which may improve the sentence. Choose the correct alternative. In case no improvement is needed your answer is (D). Mark your answer in the Answer Sheet.

73. When describing the accident, he was in tears.

- (A) When he was describing
- (B) As describing
- (C) In describing
- (D) No improvement

74. Historians feel there is an earnest need for the review of history books every five years and a revision of the same every ten years.

- (A) urgent
- (B) imperative
- (C) indispensable
- (D) No improvement

Directions : In questions no. 75 to 79, 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.

75. He arranged the furniture in the house according to the decorator's plans.

- (A) The furniture was arranged in the house according to the decorator's plans.
- (B) The furniture was being arranged in the house according to the decorator's plans.
- (C) The furniture had been arranged in the house according to the decorator's plans.
- (D) The furniture have been arranged in the house according to the decorator's plans.

76. Differential Calculus is being learnt by the girl.

- (A) The girl has learnt Differential Calculus.
- (B) The girl is learning Differential Calculus.
- (C) The girl learns Differential Calculus.
- (D) The girl was learning Differential Calculus.

77. By whom is John looked after ?

- (A) Who is looking after John ?
- (B) Who looks after John ?
- (C) John looks after whom ?
- (D) Whom looks after John ?

78. The horse jumped over the fence.

- (A) The fence was jumped by the horse.
- (B) The fence might be jumped over by the horse.
- (C) The fence was jumped over by the horse.
- (D) The fence by the horse was jumped over.

79. To make the batter add one tablespoonful of baking powder to the cake mixture.

- (A) One tablespoonful of baking powder could be added to the cake mixture to make the batter.
- (B) Let one tablespoonful of baking powder be added to the cake mixture to make the batter.
- (C) Let only one tablespoonful of baking powder be added to the cake mixture to make the batter.
- (D) One tablespoonful of baking powder may be added to the cake mixture to make the batter.

Directions : In questions no. 80 to 84, a sentence has been given in Direct/Indirect. Out of the four alternatives suggested, select the one which best expresses the same sentence in Indirect/Direct and mark your answer in the Answer Sheet.

80. "I'm so tiny that I can't reach your branches," said the little boy to the tree.

- (A) The little boy told the tree that he was so tiny that he couldn't reach its branches.
- (B) The little boy said that the tree was so tiny that he couldn't reach its branches.
- (C) The little boy said that he was so tiny that he couldn't reach its branches.
- (D) The little boy told to the tree that he was so tiny that he couldn't reach its branches.

<p>81. "I'm sorry I cannot stay," said the swallow. "I'm waited for in Egypt."</p> <p>(A) The swallow regretted that he was waited for in Egypt and couldn't stay.</p> <p>(B) The swallow told that he is sorry he cannot stay and added that he is waited for in Egypt.</p> <p>(C) The swallow said he was sorry he couldn't stay and added that someone was waiting for him in Egypt.</p> <p>(D) The swallow regretted he couldn't stay as he was waited for in Egypt.</p> <p>82. The notice reads, "Trespassers will be prosecuted."</p> <p>(A) The notice reads that trespassers will be prosecuted.</p> <p>(B) The notice read that trespassers will be prosecuted.</p> <p>(C) The notice read that trespassers would be prosecuted.</p> <p>(D) The notice reads that trespassers would be prosecuted.</p> <p>83. The mother urged the child to come on the footpath.</p> <p>(A) The mother said to the child, "You should come on the footpath."</p> <p>(B) The mother said to the child, "Come on the footpath."</p> <p>(C) The mother said, "Come, child come. Come on the footpath."</p> <p>(D) The mother said, "Please come on the footpath, child."</p> <p>84. Sushma said, "We shall celebrate the festival of Janmashtami tomorrow."</p> <p>(A) Sushma said that they would celebrate the festival of Janmashtami the next day.</p> <p>(B) Sushma said that we should celebrate the festival of Janmashtami the next day.</p> <p>(C) Sushma said that we shall celebrate the festival of Janmashtami the next day.</p> <p>(D) Sushma said that they should celebrate the festival of Janmashtami the next day.</p>	<p><i>Directions : In questions no. 85 to 90 the 1st and the last sentences of the passage/parts of the sentence are numbered 1 and 6. The rest of the passage/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 passage/sentence and find out which of the four combinations is correct. Then find the correct answer and indicate it by blackening the appropriate oval (●) in the Answer Sheet.</i></p> <p>85. 1. At the time when the city of Venice in Italy was rich and famous, one of her chief citizens was a merchant named Antonio.</p> <p>P. He had many friends, among them a young Venetian nobleman called Bassanio.</p> <p>Q. But Antonio loved him and gave him money whenever he needed it.</p> <p>R. Although he came from a noble family, Bassanio was poor and spent more money than he could afford.</p> <p>S. He was well known for his kindness.</p> <p>6. For the merchant of Venice was a rich man, who owned many ships which traded with foreign countries.</p> <p>(A) PRSQ (B) PQRS (C) SQRP (D) SPBQ</p> <p>86. 1. Self help means doing our own work ourselves.</p> <p>P. They prefer to have things done for them.</p> <p>Q. The most successful man is he who depends the least on others.</p> <p>R. There are men in our society who don't exert themselves.</p> <p>S. Such people are rarely successful.</p> <p>6. He has a strength of mind and determination to succeed on his own.</p> <p>(A) QSRP (B) RPSQ (C) PQRS (D) QPSR</p>
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87. 1. 'Tsunami' which means 'harbour wave'
- P. usually an ocean
- Q. of a large volume of a body of water
- R. is a series of water waves
- S. caused by the displacement

6. though it can occur in large lakes.

- (A) PSQR (B) RQPS
- (C) RSQP (D) SRQP

88. 1. Dante was of moderate height
- P. clad always in such sober dress
- Q. with a slow and gentle pace
- R. was accustomed to walk somewhat bowed
- S. and after maturity

6. as befitted his ripe years.

- (A) QSRP (B) SRQP
- (C) RQSP (D) PSRQ

89. 1. Queen Elizabeth had the mind
- P. and nurtured her country
- Q. through careful leadership
- R. of a political genius
- S. and by choosing capable men

6. to assist her.

- (A) SPRQ (B) RQSP
- (C) RPQS (D) PSRQ

90. 1. Drug addiction has now become one of the major problems of our society.

P. There should be joint effort of family, government and social organizations for prevention and cure of this curse.

Q. The possibilities of these young men and women are nipped in the bud.

R. In such an alarming situation, we cannot remain idle onlookers.

S. Many youngsters are becoming victims of this deadly curse.

6. We should take the pledge — 'Let us unite for a drug-free world.'

- (A) RQPS (B) SQRP
- (C) PQRS (D) PSQR

Directions : In questions no. 91 to 95, 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.

The sun had set but there was still some light in the sky. Martin 91 on his elbow and looked 92 through the leaves. In the waters of the lake, close to the shore, he saw a 93 of alligators floating quietly. One of the creatures, 94 huge one, was lying on a high 95 of sand, a few yards from the water.

91. (A) sat (B) crossed
- (C) leaned (D) lay

92. (A) into (B) down
- (C) at (D) for

93. (A) semblance (B) family
- (C) volume (D) number

94. (A) an (B) a
- (C) one (D) single

95. (A) bank (B) peak
- (C) pit (D) pile

Directions : In questions no. 96 to 100, you have a brief passage with 5 questions following the passage. Read the passage carefully and choose the best answer to each question out of the four alternatives and mark it by blackening the appropriate oval (●) in the Answer Sheet.

I could not help thinking, as I looked at the works of Shakespeare on the shelf, that it would have been impossible, completely and entirely, for any woman to have written the plays of Shakespeare in the age of Shakespeare. Let me imagine, since facts are so hard to come by, what would have happened had Shakespeare had a wonderfully gifted sister, called Judith, let us say. Shakespeare himself went, very probably — his mother was an heiress — to the grammar school, where he may have learnt Latin — Ovid, Virgil and Horace — and the elements of grammar and logic. He was, it is well known, a wild boy who poached rabbits, perhaps shot a deer, and had, rather sooner than he should have done, to marry a woman in the neighbourhood, who bore him a child rather quicker than was right. That escapade sent him to seek his fortune in London. He had, it seemed, a taste for the theatre; he began by holding horses at the stage door.

96. Shakespeare's sister was

- (A) ordinary (B) wise
(C) imaginary (D) famous

97. Which of the following statements is true ?

- (A) Judith was Shakespeare's wife.
(B) Shakespeare's mother was poor.
(C) Shakespeare learnt Roman.
(D) Shakespeare did not have a sister.

98. "Come by" means

- (A) search (B) maintain
(C) manage to get (D) invent

99. The passage is about

- (A) Shakespeare's life
(B) Shakespeare's sister
(C) Shakespeare's theatre
(D) Shakespeare's writing

100. Shakespeare's marriage reveals that he was

- (A) stealthy (B) impulsive
(C) talented (D) wise

Directions : In questions no. 96 to 100, you have a brief passage with 5 questions following the passage. Read the passage carefully and choose the best answer to each question out of the four alternatives and mark it by blackening the appropriate oval (●) in the Answer Sheet.

I could not help thinking, as I looked at the works of Shakespeare on the shelf, that it would have been impossible, completely and entirely, for any woman to have written the plays of Shakespeare in the age of Shakespeare. Let me imagine, since facts are so hard to come by, what would have happened had Shakespeare had a wonderfully gifted sister, called Judith, let us say. Shakespeare himself went, very probably — his mother was an heiress — to the grammar school, where he may have learnt Latin — Ovid, Virgil and Horace — and the elements of grammar and logic. He was, it is well known, a wild boy who poached rabbits, perhaps shot a deer, and had, rather sooner than he should have done, to marry a woman in the neighbourhood, who bore him a child rather quicker than was right. That escapade sent him to seek his fortune in London. He had, it seemed, a taste for the theatre; he began by holding horses at the stage door.

96. Shakespeare's sister was
(A) ordinary (B) wise
(C) imaginary (D) famous
97. Which of the following statements is true ?
(A) Judith was Shakespeare's wife.
(B) Shakespeare's mother was poor.
(C) Shakespeare learnt Roman.
(D) Shakespeare did not have a sister.
98. "Come by" means
(A) search (B) maintain
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99. The passage is about
(A) Shakespeare's life
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(C) Shakespeare's theatre
(D) Shakespeare's writing
100. Shakespeare's marriage reveals that he was
(A) stealthy (B) impulsive
(C) talented (D) wise

PART III : QUANTITATIVE APTITUDE

101. The value of $\frac{1}{1 + \cot^2 \alpha} + \frac{1}{1 + \tan^2 \alpha}$ is equal to
- (A) 2 (B) 1
(C) $\frac{1}{4}$ (D) $\frac{1}{2}$
102. The angles of depression of the top and the bottom of a building of height h units, from the top of a monument of height H units are complementary. If the distance between the building and the monument is ' a ' units, then it is always true that
- (A) $\frac{H+a}{H-a} = \frac{H}{h}$
(B) $\frac{h}{a} = \frac{a}{H-h}$
(C) $\frac{H+a}{H} = \frac{h}{a-H}$
(D) $\frac{H}{a} = \frac{a}{H-h}$
103. If $\frac{\sec \theta + \tan \theta}{\sec \theta - \tan \theta} = \frac{2 + \sqrt{3}}{2 - \sqrt{3}}$, then the value of θ in circular measure will be
- (A) $\frac{\pi}{6}$ (B) $\frac{\pi}{4}$
(C) $\frac{\pi}{12}$ (D) $\frac{\pi}{3}$
104. If $\cos 43^\circ = \frac{x}{\sqrt{x^2 + y^2}}$, then the value of $\tan 47^\circ$ is
- (A) $\frac{x}{\sqrt{x^2 - y^2}}$ (B) $\frac{y}{\sqrt{x^2 + y^2}}$
(C) $\frac{y}{x}$ (D) $\frac{x}{y}$
105. A wall 9 m long, 6 m high and 20 cm thick is to be constructed using bricks of dimension 30 cm \times 15 cm \times 10 cm. How many bricks will be required?
- (A) 2400 (B) 2800
(C) 3600 (D) 3200
106. The diameter of a sphere is 6 cm. It is melted and drawn into a wire of diameter 0.1 cm. Find the length of the wire.
- (A) 42 cm (B) 24 cm
(C) 28 cm (D) 36 cm
107. If $\sec \theta - \cos \theta = \frac{5}{2}$ (θ is a positive acute angle), then $\sec \theta$ is equal to
- (A) 2 (B) $-\frac{1}{2}$
(C) 0 (D) $\frac{1}{2}$
108. The base of a pyramid of volume $48\sqrt{3}$ cc is an equilateral triangle. If the height of the pyramid is 4 cm, then each side of the equilateral triangle at the base is
- (A) 12 cm (B) 3 cm
(C) 4 cm (D) 6 cm
109. In a triangle ABC, $AB = 3$ cm, $BC = 4$ cm and $\angle ABC = 90^\circ$. The triangle is first rotated around the side AB and then around the side BC. The volume of the first cone, thus formed, is $x\%$ more than second cone. Then x is equal to
- (A) $33\frac{1}{2}$ (B) 25
(C) $33\frac{1}{3}$ (D) 20
110. The base of a right-angled triangle is 5 units and hypotenuse is 13 units. Then the area is
- (A) 60 sq. units (B) 15 sq. units
(C) 30 sq. units (D) 12 sq. units

111. If in a triangle PQR, PQ = 3 cm, QR = 5 cm and PR = 4 cm, then the angles of the triangle in descending order of magnitude are
 (A) $\angle Q > \angle R > \angle P$
 (B) $\angle P > \angle Q > \angle R$
 (C) $\angle Q > \angle P > \angle R$
 (D) $\angle P > \angle R > \angle Q$

112. The graphs of $x + y = 4$ and $3x + 3y = 6$
 (A) do not intersect
 (B) intersect at the point (2, 2)
 (C) intersect at the point (1, 3)
 (D) intersect at the point (3, 1)

113. If $yz : zx : xy = 1 : 2 : 3$ ($x, y, z \neq 0$), then $\frac{x}{yz} \div \frac{y}{zx}$ is
 (A) 4
 (B) $\frac{1}{4}$
 (C) $\frac{1}{2}$
 (D) $\frac{3}{2}$

114. If $x - \frac{1}{x} = 2$, then the value of $x^4 + \frac{1}{x^4}$ is
 (A) 34
 (B) 4
 (C) 8
 (D) 12

115. If $x = \frac{1}{1 + \sqrt{2}}$, then the value of $x^2 + 2x + 3$ is
 (A) 1
 (B) 3
 (C) 0
 (D) 4

116. If $a + b + c = 4$, then $a^3 + b^3 + c^3 - 12c^2 + 48c - 64$ is equal to
 (A) $abc + 12ab$
 (B) $3abc$
 (C) $3abc - 12ab$
 (D) $3abc + 12ab$

117. The greatest number of solid cubes with 0.2 metre edges that can be packed in a box whose inside dimensions are 1 m by 1 m by 2 m are
 (A) 250
 (B) 10
 (C) 25
 (D) 50

118. The length of a wire is 66 m. Then the number of circles of circumference 1.32 cm that can be made from this wire is
 (A) 5000
 (B) 50
 (C) 100
 (D) 1000

119. Suppose O is the incentre of $\triangle ABC$ and the circle touches the sides BC, CA and AB at the points P, Q, R respectively. If $\angle A = 60^\circ$, then the magnitude of $\angle QPR$ is
 (A) 100°
 (B) 60°
 (C) 90°
 (D) 120°

120. In an isosceles triangle ABC, $AB = AC$; a circle drawn with AB as diameter intersects BC at D. If $BD = 3$ cm, then the length of CD is
 (A) 6 cm
 (B) 1.5 cm
 (C) 5 cm
 (D) 3 cm

121. A vertical stick, 12 cm long, casts a shadow 8 cm long on the ground. At the same time a tower casts a shadow 40 cm long on the ground. Determine the height of the tower.
 (A) 50 cm
 (B) 40 cm
 (C) 80 cm
 (D) 60 cm

122. If O is the circumcentre of a right-angled triangle ABC, right-angled at B, the position of point O is
 (A) lies on BC
 (B) mid-point of CA
 (C) within triangle ABC
 (D) outside the triangle ABC

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SPACE FOR ROUGH WORK / एक कार्य के लिए स्थान

$\frac{2}{yz}$ $\frac{1+\sqrt{2}}{1-\sqrt{2}}$ $x+1$ x^2+5x $x^2+\frac{1}{x^2}+2 = 4+2-2$ $\sqrt{2}-1$ $3+1-2\sqrt{2}+2\sqrt{2}-2+2$

123. A man sold two tables for ₹ 720 each. On one he gained 20% and on the other he lost 20%. Find his total loss or gain in this transaction.
(A) Loss of ₹ 50
(B) No gain no loss
(C) Loss of ₹ 60
(D) Gain of ₹ 60
124. The difference between simple and compound interest @ 10% per annum of a sum of ₹ 1,000 after 4 years is
(A) ₹ 64.10 (B) ₹ 31
(C) ₹ 32.10 (D) ₹ 40.40
125. The average of 15 numbers is 7. If the average of the first 8 numbers is 6.5 and the average of the last 8 numbers is 8.5, then the middle number is
(A) 15 (B) 10
(C) 23 (D) 13
126. If $\sqrt{15625} = 125$, find
 $\sqrt{15625} + \sqrt{15625} - \sqrt{0.015625}$
(A) 2.375 (B) 13.625
(C) 13.6 (D) 12.5
127. The sum of three numbers is 121. The ratio of the second to the 3rd is 9 : 6 and the first to the 3rd is 1 : 4. The second number is
(A) 66 (B) 60
(C) 62 (D) 64
128. Two numbers are in the ratio 3 : 5 and their L.C.M. is 75. What is their H.C.F.?
(A) 15 (B) 3
(C) 5 (D) 10
129. A's salary is 30% higher than B's salary. The percent that B's salary is less than A's salary is
(A) 25% (B) 30%
(C) $23\frac{1}{13}\%$ (D) 20%
130. 8 men can finish a piece of work in 40 days. If 2 more men join with them, then the work will be completed in
(A) 25 days (B) 30 days
(C) 32 days (D) 36 days
131. The driver of a car driving @ 36 kmph locates a bus 40 m ahead of him. After 20 seconds the bus is 60 m behind. The speed of the bus is
(A) 18 kmph (B) 36 kmph
(C) 20 m/sec (D) 72 m/sec
132. A producer of tea blends two varieties of tea from two tea gardens, one costing ₹ 240 per kg and the other ₹ 300 per kg, in the ratio 5 : 3. If he sells the blended variety at ₹ 315 per kg then his gain percent is
(A) $11\frac{1}{9}$ (B) 10
(C) 20 (D) $16\frac{2}{3}$
133. A and B entered into a partnership with capitals in the ratio 4 : 5. After 3 months A withdrew $\frac{1}{4}$ of his capital and B withdrew $\frac{1}{5}$ of his capital. The gain at the end of 10 months was ₹ 760. A's share in this profit is
(A) ₹ 540 (B) ₹ 330
(C) ₹ 360 (D) ₹ 450
134. A shopkeeper earns a profit of 15% on selling a book at 10% discount on the printed price. The ratio of the cost price and the printed price is
(A) 18 : 23 (B) 16 : 21
(C) 18 : 21 (D) 17 : 23
135. The selling price of an article is ₹ 39. If its cost price is numerically equal to its profit percent, then its cost price (in ₹) is
(A) 37 (B) 25
(C) 30 (D) 35

Handwritten calculations:

$$20 \times 5 = 100$$

$$30 \times 10 = 300$$

$$90 \times 18 = 1620$$

$$10 \times 5 = 50$$

$$A = 130B$$

$$CP = X$$

$$SP = 39$$

$$Profit = 39 - X$$

$$\frac{39 - X}{X} \times 100 = 39$$

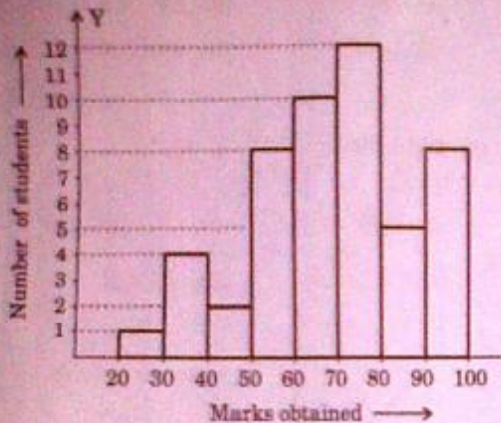
$$3900 - 100X = 39X$$

$$3900 = 139X$$

$$X = \frac{3900}{139}$$

$$X = 28.06$$

Directions : The histogram below shows the marks of 50 students in an examination. Examine the diagram and answer Q. Nos. 147 and 148.



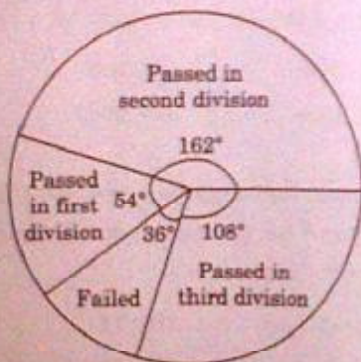
147. If the minimum marks for getting scholarship is 80, how many students will get it ?

- (A) 11 (B) 13
(C) 12 (D) 10

148. How many students obtained less than 40 ?

- (A) 5 (B) 2
(C) 6 (D) 4

Directions : The following pie-chart shows the result of an examination of 360 students. Study the chart and answer Q. Nos. 149 and 150.



149. The percentage of students who failed is

- (A) 15 (B) 5
(C) 20 (D) 10

150. The number of students who passed in second division is more than that in third division by

- (A) 64 (B) 54
(C) 50 (D) 51

FOR VISUALLY HANDICAPPED CANDIDATES ONLY

147. A certain sum amounts to ₹ 5,182 in 2 years and ₹ 5,832 in 3 years. If the simple interest is calculated annually, then the principal is

- (A) ₹ 4,000 (B) ₹ 2,000
(C) ₹ 5,000 (D) ₹ 3,882

148. If the height is doubled and the base is decreased by 20%, then the ratio of old area of the triangle and new area of the triangle is

- (A) 5 : 8 (B) 2 : 3
(C) 3 : 10 (D) 4 : 5

149. If $\tan 2\theta \tan 4\theta = 1$, then the value of $\tan 3\theta$ is

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

150. If $ax + \frac{1}{bx} = c$, then the value of $bx + \frac{1}{ax}$ is

- (A) $\frac{bc}{a}$ (B) $\frac{ac}{b}$
(C) $\frac{a^2}{bc}$ (D) $\frac{c}{ab}$

PART IV : GENERAL AWARENESS

151. The first Governor of the Portuguese in India was
(A) De Almeida
(B) Vasco-da-Gama
(C) Bartholomew Diaz
(D) Albuquerque
152. Which one of the following reformatory measures was **not** introduced by William Bentinck ?
(A) Suppression of thugs
(B) Abolition of Sati
(C) Removal of disabilities due to change of religion
(D) Abolition of slavery
153. Which work of Thomas Paine inspired the colonial people to fight against Britain during the American War of Independence ?
(A) Social Contract
(B) What is the Third Estate ?
(C) Common Sense
(D) The Spirit of the Laws
154. Fascism believes in
(A) Dominant multi-party system
(B) One party system
(C) Bi-party system
(D) Fragmented multi-party system
155. Which of the following commissions is **not** a Constitutional body ?
(A) Union Public Service Commission
(B) Staff Selection Commission
(C) Election Commission
(D) Finance Commission
156. An index number measuring the average price of consumer goods and services purchased by households is
(A) Wholesale price index
(B) Consumer price index
(C) Human development index
(D) Cost of living index
157. Oligopoly consists of
(A) Few sellers (B) Two sellers
(C) Three sellers (D) Single seller
158. National Income in India is estimated by the
(A) product and income methods
(B) product method
(C) income method
(D) expenditure method
159. The fixed cost in the short-run for a producing firm will be
(A) always fluctuating
(B) always declining
(C) always constant and fixed
(D) always increasing
160. Machine tool is an example of _____ goods.
(A) intermediary (B) consumer
(C) capital (D) free
161. Gandhara art was the combination of
(A) Indian and Persian styles of sculptures
(B) Indian and Chinese styles of sculptures
(C) Indian and Greek styles of sculptures
(D) None of these
162. Mohammed Gawan was a famous Wazir and Wakil in the kingdom of
(A) Mysore (B) Bahmani
(C) Gujarat (D) Kashmir

163. Duncan Passage separates
(A) Little Andamans and Car Nicobar Islands
(B) North and Middle Andamans
(C) Middle and South Andamans
(D) South Andamans and Little Andamans
164. In biology, water soluble substances are referred to as
(A) hydrodynamic
(B) hydrophobic
(C) hydrophilic
(D) hydrokinetic
165. Amoeba acquires its food through the process of
(A) Exocytosis and endocytosis
(B) Exocytosis
(C) Endocytosis
(D) Plasmolysis
166. Female *Anopheles* mosquito is the vector of
(A) Malaria (B) Filariasis
(C) Dengue fever (D) Yellow fever
167. The animal association seen in a sucker fish attached to a shark is
(A) Neutralism (B) Mutualism
(C) Commensalism (D) Parasitism
168. Which among the following is symbiotic Nitrogen-fixing bacteria?
(A) *Asotobacter*
(B) *Xanthomonas*
(C) *Pseudomonas*
(D) *Rhizobium*
169. Under the advisory jurisdiction, the Supreme Court gives its opinion on a question of law or fact of great public importance referred to it by
(A) Any High Court
(B) The Prime Minister
(C) The President
(D) The Union Law Minister
170. How much time is given to Rajya Sabha to pass a Money Bill?
(A) 15 days (B) 12 days
(C) 13 days (D) 14 days
171. The electoral college to elect the President composes
(A) Elected members of both the Houses of Parliament and Legislative Assemblies
(B) All members of both the Houses of Parliament
(C) All elected members of both the Houses of Parliament
(D) All members of Parliament and all members of Legislative Assemblies and Councils
172. Which one of the tree species does *not* belong to deciduous vegetation?
(A) Deodar (B) Teak
(C) Sal (D) Sandalwood
173. The predominant soil in the Coastal plains and North Indian plains is
(A) Arid (B) Black
(C) Red (D) Alluvial
174. Rocks having large quantity of underground water and permitting ready flow of water are called
(A) Permeable (B) Aquicludes
(C) Aquifers (D) Porous
175. Which one of the following is *not* a grassland?
(A) Veld (B) Selvas
(C) Steppes (D) Downs

176. An operating system is a/an
 (A) Accounting software
 (B) Application software
 (C) System software
 (D) Utility software
177. In DOS, the DIR Command is used to
 (A) display contents of a file
 (B) delete files
 (C) display list of files and subdirectories
 (D) copy files
178. _____ is the amount of work that the system is able to do per unit time.
 (A) Turnaround (B) Output
 (C) Transfer rate (D) Throughput
179. An example of a covalent molecule is
 (A) Lead chloride
 (B) Carbon tetrachloride
 (C) Potassium chloride
 (D) Sodium chloride
180. The element common to all acids is
 (A) Sulphur (B) Oxygen
 (C) Hydrogen (D) Nitrogen
181. In medicine bottles containing tablets or capsules, a small pouch of silica gel is kept to
 (A) keep the bottle warm
 (B) kill bacteria
 (C) absorb moisture
 (D) absorb gases
182. Aluminium oxide is a/an
 (A) amphoteric acid
 (B) acid oxide
 (C) basic oxide
 (D) neutral oxide
183. Which one of the following is the most stable ecosystem?
 (A) Forest (B) Desert
 (C) Mountain (D) Ocean
184. Match correctly the crops listed in List I with the diseases affecting them given in List II:
- | <i>List I</i>
(Crops) | <i>List II</i>
(Diseases) |
|--------------------------|------------------------------|
| a. Paddy | 1. Downy mildew |
| b. Wheat | 2. Blast |
| c. Mustard | 3. Red rot |
| d. Sugarcane | 4. Rust |
- (A) a-4, b-2, c-3, d-1
 (B) a-1, b-2, c-4, d-3
 (C) a-3, b-1, c-2, d-4
 (D) a-2, b-4, c-1, d-3
185. A plant with green leaves viewed in red light will appear
 (A) Violet (B) Black
 (C) Green (D) Red
186. A body moving in a circular path with constant speed has
 (A) radially outward acceleration
 (B) constant retardation
 (C) constant acceleration
 (D) variable acceleration
187. Total internal reflection occurs when light travels from
 (A) a denser medium to a rarer medium with angle of incidence greater than critical angle
 (B) a rarer medium to a denser medium
 (C) a denser medium to a rarer medium
 (D) a rarer medium to a denser medium with angle of incidence greater than critical angle
188. MCB, which cuts off the electricity supply in case of short-circuiting works on the
 (A) electroplating effect of current
 (B) chemical effect of current
 (C) heating effect of current
 (D) magnetic effect of current

189. What is the currency of South Africa ?

- (A) Rand (B) Real
(C) Rial (D) Dirham

190. Match the two lists containing the names of poets and the language in which they wrote Ramayana :

Poets	Language in which Ramayana was written
a. Kamban	1. Bengali
b. Krittivasa	2. Hindi
c. Madhava Kandali	3. Tamil
d. Tulsi Das	4. Assamese

- (A) a-3, b-4, c-1, d-2
(B) a-2, b-3, c-1, d-4
(C) a-3, b-1, c-4, d-2
(D) a-4, b-2, c-1, d-3

191. Which one of the following countries is **not** a member of the Organization of Petroleum Exporting Countries ?

- (A) Libya (B) Algeria
(C) Brazil (D) Ecuador

192. The two events in which India won gold medals in the Asian Athletic Championships, 2013 are

- (A) Women's 4 × 400 m Relay and Men's Discus Throw
(B) Women's 400 m and Women's Discus Throw
(C) Women's Long Jump and Men's Discus Throw
(D) Women's Shot Put and Women's 4 × 400 m Relay

193. For which one of the following films directed by Shyam Benegal was the story written jointly by him and Dr. Verghese Kurien ?

- (A) Zubeidaa (B) Ankur
(C) Mandi (D) Manthan

194. Which of the following is a biodegradable pollutant ?

- (A) Heavy metals (B) Dye effluent
(C) Bleaching effluent (D) Sewage

195. The concentration of pollutants in atmosphere are generally expressed in

- (A) parts per trillion
(B) parts per million
(C) parts per billion
(D) kilogram per square metre

196. Which country won the Confederations Cup, 2013 ?

- (A) Uruguay (B) Spain
(C) Brazil (D) Italy

197. Who is the Chief Justice of India ?

- (A) Justice K.G. Balakrishnan
(B) Justice Altamas Kabir
(C) Justice P. Sathasivam
(D) Justice Markandey Singh

198. Which one of the following days does **not** synchronize with the birth anniversary of any eminent Indian ?

- (A) Gandhi Jayanti
(B) National Science Day
(C) Teacher's Day
(D) Children's Day

199. Which one of the following novels was **not** written by Charles Dickens ?

- (A) *Pickwick Papers*
(B) *Hard Times*
(C) *Pride and Prejudice*
(D) *Oliver Twist*

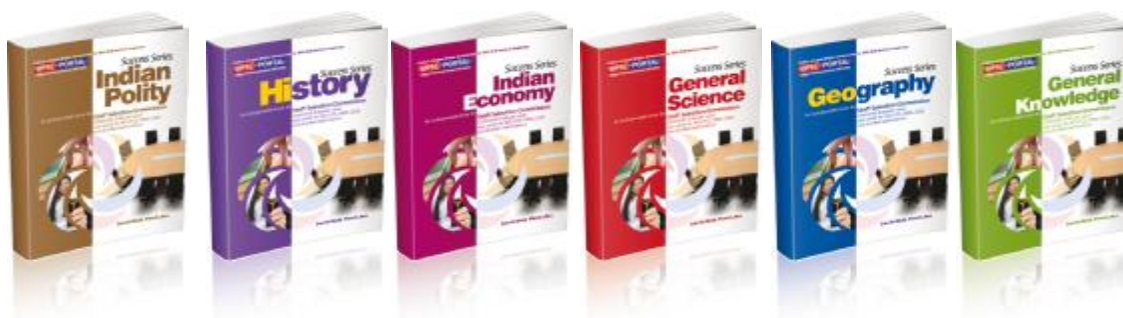
200. Which country has given asylum to Julian Assange, WikiLeaks founder ?

- (A) Ecuador (B) Russia
(C) Cuba (D) None of the above

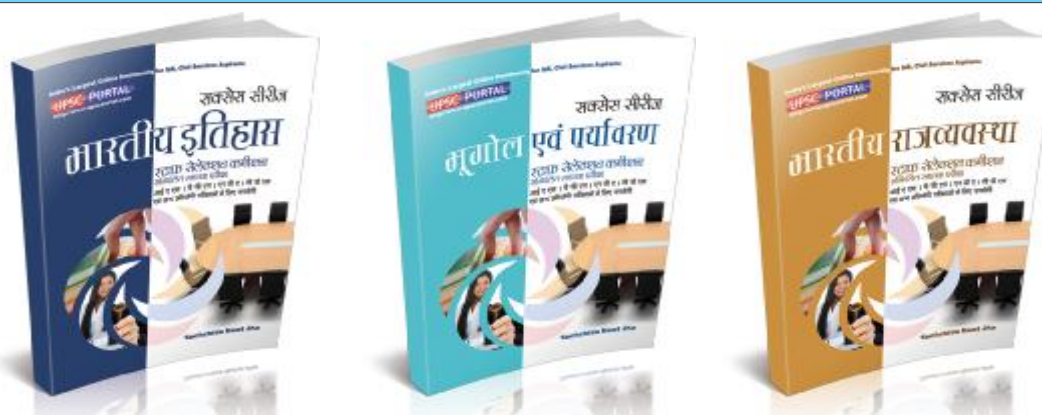
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