

READ INSTRUCTIONS BEFORE FILLING ANY DETAILS OR ATTEMPTING TO ANSWER THE QUESTIONS.

Booklet Sr. No.

11973



Question Booklet  
Set

Candidate's Name \_\_\_\_\_

Father's Name \_\_\_\_\_

Date of Birth :

D D

M M

Y Y Y Y

Category Code\*

(\* As given in the Admit Card)

A

OMR Response Sheet No. \_\_\_\_\_

Roll No. \_\_\_\_\_

Candidate's Signature :

(Please sign in the box)

Total Questions : 170]

Time Allowed : 170 Minutes]

### INSTRUCTIONS

1. The candidate shall **NOT** open this booklet till the time he/she is told to do so by the Invigilation Staff. However, in the meantime, the candidate can read these instructions carefully and subsequently fill the appropriate columns given above in **CAPITAL** letters. The candidate may also fill the relevant columns (other than the columns related to marking responses to the questions) of the Optical Mark Reader (OMR) response sheet, supplied separately.
2. Use only **BLUE OR BLACK** ball point pen to fill the relevant columns on this page. Use of fountain pen may leave smudges, which may make the information given by the candidate here illegible.
3. The candidate shall be liable for any adverse effect if the information given above is wrong or illegible.
4. Before attempting the paper, the candidate must fill all the columns given above on this page and sign at the appropriate place.
5. Each candidate is required to attempt 170 questions in 170 minutes, except for orthopaedically/visually impaired candidates, who would be given 50 extra minutes, by marking correct responses on the OMR sheet which would be supplied separately to the candidates.
6. The candidate must write the following on the OMR sheet :
  - (a) Serial number of OMR sheet supplied to him/her for marking the responses to the questions.
  - (b) Serial number of the question booklet.
  - (c) Series of the question booklet. Failure to do so may lead to cancellation of candidature or any other action which the Commission may deem fit.
7. The candidate should darken the appropriate response to the question by completely darkening the appropriate circle/oval according to his/her choice of response i.e. a, b, c or d in the manner shown in the example below :
8. Partly darkening the circle/oval on the OMR response sheet or using other symbols such as tick mark or cross would not result in evaluation of the response as the OMR scanner can only interpret the answers by reading the darkened responses in the manner explained in preceding paragraph. Darkening more than one circle/oval as response to a question shall also be considered as wrong answer. The candidates are advised not to erase any marked answer on the OMR sheet as it may lead to double reading of the answer by the scanner.
9. The candidates shall ensure that the responses are marked in correct manner and any adverse impact due to wrong marking of responses would be the responsibility of the respective candidate. The following are some of the **examples of wrong marking** of responses on the OMR response sheet :
10. The candidates, when allowed to open the question paper booklet, must check the booklet to confirm that the booklet has complete number of pages, the pages are printed correctly and there are no blank pages. In case there is any such error in the question paper booklet the candidate should immediately bring this fact to the notice of the Invigilation Staff and obtain a booklet of the same series as given earlier.
11. The serial number of the new booklet should be entered in the relevant column of the OMR sheet. The Invigilation Staff must make necessary corrections in their record regarding the change in the serial no. of question booklet.
12. The question paper booklet has 28 pages.
13. Each question shall carry ~~1.5 (one & half) marks.~~ 02 Marks.
14. There are four options for each question and the candidate has to mark the MOST APPROPRIATE answer on the OMR response sheet using blue or black ball point pen.
15. There is no negative marking for wrong answers or questions not attempted by the candidate.

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( A - 1 )



**Directions (Questions no. 1 – 2) :** Study the following information carefully and answer the questions given below it :

- (I) Naveen Jindal is available at office from 12 noon to 4 pm on Tuesday, Thursday and Sunday.
- (II) His younger brother Praveen Jindal is available at office on Monday, Thursday, Friday and Sunday between 10 am to 2 pm.
- (III) The eldest brother Suresh Jindal is available between 9 am to 12 noon on Monday, Wednesday and Thursday and 2 pm to 4 pm on Friday, Saturday and Sunday.
- At a time, on which day of a week are all the three brothers available at office ?  
(a) Never  
(b) Sunday  
(c) Thursday  
(d) Cannot be determined
  - On which day(s) of a week, are the youngest and the eldest brother available at the same time ?  
(a) Only Monday  
(b) Only Thursday  
(c) Only Friday  
(d) Both Monday and Thursday
  - Shweta remembers that her brother Shubham's birthday is after 18<sup>th</sup> August but before 25<sup>th</sup> August, whereas her sister Shyasi remembers that her brother Shubham's birthday is after 16<sup>th</sup> August but before 20<sup>th</sup> August. If the statements of both are true, then on what date is Shubham's birthday ?  
(a) 18<sup>th</sup> August  
(b) 17<sup>th</sup> August  
(c) 19<sup>th</sup> August  
(d) 20<sup>th</sup> August

- A bus for Shimla leaves every 30 minutes from Maharana Pratap interstate bus stand. An enquiry clerk told a passenger that the bus had already left 10 minutes ago and the next bus would leave at 9 : 35 am. At what time did the enquiry clerk give this information to the passenger ?  
(a) 8 : 55 am  
(b) 9 : 08 am  
(c) 9 : 10 am  
(d) 9 : 15 am
- X introduces Y saying, "He is the husband of the grand-daughter of the father of my father." How is Y related to X ?  
(a) Brother  
(b) Son  
(c) Brother-in-law  
(d) Nephew
- 2 men and 1 woman board a bus in which 5 seats are vacant; one of these 5 seats is reserved for ladies. A woman may or may not sit on the seat reserved for ladies. In how many different ways can the five seats be occupied by these passengers ?  
(a) 15  
(b) 36  
(c) 48  
(d) 60
- Pointing out to a lady, a girl said, "She is the daughter-in-law of the grandmother of my father's only son." How is the lady related to the girl ?  
(a) Sister-in-law  
(b) Mother  
(c) Aunt  
(d) Mother-in-law



8. In a rare coin collection, there is one gold coin for every three non-gold coins. 10 more gold coins are added to the collection and the ratio of gold coins to non-gold coins becomes 1 : 2. Based on the information, the total number of coins in the collection now becomes
- (a) 90
  - (b) 80
  - (c) 60
  - (d) 50

**Directions :** In the question below are given three statements followed by three conclusions numbered I, II, and III. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

9. **Statements :**  
All trains are buses. No room is bus.  
All boats are rooms.
- Conclusions :**
- I. No boat is train.
  - II. No bus is boat.
  - III. No train is room.
- (a) None follows
  - (b) Only I and II follow
  - (c) Only II and III follow
  - (d) All follow
10. A conveyor belt delivers baggage at the rate of 3 tonnes in 5 minutes and a second conveyor belt delivers baggage at the rate of 1 tonne in 2 minutes. How much time will it take to get 33 tonnes of baggage using both conveyor belts ?
- (a) 25 minutes and 30 seconds
  - (b) 30 minutes
  - (c) 35 minutes
  - (d) 40 minutes and 45 seconds

**Directions :** In the question below are given three statements followed by four conclusions numbered I, II, III and IV. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

11. **Statements :**

All jungles are buses. All books are buses. All fruits are books.

**Conclusions :**

- I. Some fruits are jungles.
- II. Some buses are books.
- III. Some buses are jungles.
- IV. All fruits are buses.

- (a) Only I, II and III follow
- (b) Only I, II and IV follow
- (c) Only II, III and IV follow
- (d) All follow

12. In a society, it is customary for friends of the same sex to hug and for friends of opposite sex to shake hands when they meet. A group of friends met in a party and there were 24 handshakes. Which one among the following numbers indicates the possible number of hugs ?
- (a) 39
  - (b) 30
  - (c) 21
  - (d) 20



**Directions :** In the question below are given three statements followed by four conclusions numbered I, II, III and IV. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

**13. Statements :**

Some spoons are bowls. All bowls are knives. All knives are forks.

**Conclusions :**

- I. All spoons are forks.
- II. All bowls are forks.
- III. Some knives are bowls.
- IV. Some forks are spoons.

- (a) Only II and III follow
- (b) Only II and IV follow
- (c) Only III and IV follow
- (d) None of these

- 14.** In a certain code language, 'ja li su' means 'they are beautiful', 'ho do ja to' means 'you seem very beautiful', 'do su re' means 'they can do' and 'yun sun pun ja' means 'how beautiful he is'. In that language, which of the following means 'are'?

- (a) ja
- (b) li
- (c) re
- (d) su

- 15.** If 'CAT' and 'BOAT' are written as 'XZG' and 'YLZG' respectively in a code language, then how is 'EGG' written in the same language?

- (a) VSS
- (b) URR
- (c) VTT
- (d) UTT

- 16.** If 'football' is called 'cricket', 'cricket' is called 'basketball', 'basketball' is called 'badminton', 'badminton' is called 'volleyball' and 'volleyball' is called 'hockey', then which of the following is **not** played with ball?

- (a) Cricket
- (b) Volleyball
- (c) Hockey
- (d) Badminton

- 17.** It was Shriram's and Sreedevi's 12<sup>th</sup> wedding anniversary. Shriram said, "When we got married, Sreedevi was  $\frac{3}{4}$ <sup>th</sup> of my age but now she is  $\frac{5}{6}$ <sup>th</sup> of my age." What are their present ages actually?

- (a) Shriram - 38 years, Sreedevi - 32 years
- (b) Shriram - 36 years, Sreedevi - 30 years
- (c) Shriram - 30 years, Sreedevi - 24 years
- (d) Shriram - 40 years, Sreedevi - 34 years

- 18.** The age of a father is three times that of his son. After 5 years double of the father's age will be five times the age of the son. The present ages of the father and the son respectively are

- (a) 30 years and 10 years
- (b) 36 years and 12 years
- (c) 42 years and 14 years
- (d) 45 years and 15 years



**Directions (Questions no. 19 – 24) :** In each of the questions below are given two/three statements followed by three/four conclusions numbered I, II, III and IV. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

**19. Statements :**

All shares are debentures. No debenture is an equity.

**Conclusions :**

- I. No equity is a share.
- II. Some debentures are shares.
- III. No share is an equity.

- (a) Only I follows
- (b) Only II follows
- (c) Only III follows
- (d) All follow

**20. Statements :**

Some tables are TVs. Some TVs are radios.

**Conclusions :**

- I. Some tables are radios.
- II. Some radios are tables.
- III. All radios are TVs.
- IV. All TVs are tables.

- (a) None follows
- (b) All follow
- (c) Only I and III follow
- (d) Only II and IV follow

**21. Statements :**

Some tigers are lions. Some lions are rabbits. Some rabbits are horses.

**Conclusions :**

- I. Some tigers are horses.
- II. Some rabbits are tigers.
- III. Some horses are lions.
- IV. All horses are rabbits.

- (a) All follow
- (b) None follows
- (c) Only I and II follow
- (d) Only II and IV follow

**22. Statements :**

Some papers are cats. All cats are bats. No bat is horse.

**Conclusions :**

- I. Some papers are horses.
- II. No horse is cat.
- III. Some bats are papers.
- IV. All papers are bats.

- (a) Only I and II follow
- (b) Only II and III follow
- (c) Only III and IV follow
- (d) Only I and IV follow

**23. Statements :**

All players are spectators. Some spectators are theatres. Some theatres are dramas.

**Conclusions :**

- I. Some dramas are spectators.
- II. Some players are dramas.
- III. Some theatres are players.
- IV. All spectators are players.

- (a) None follows
- (b) Only I and III follow
- (c) Only II follows
- (d) Only II and IV follow

24. *Statements :*

All fruits are vegetables. All pens are vegetables. All vegetables are rains.

*Conclusions :*

- I. All fruits are rains.
- II. All pens are rains.
- III. Some rains are vegetables.

- (a) None follows
- (b) Only I and II follow
- (c) Only II and III follow
- (d) All follow

25. The letters L, M, N, O, P, Q, R, S and T in their order are substituted by nine integers 1 to 9 in that order. 4 is assigned to P. The difference between P and T is 5. The difference between N and T is 3. What is the integer assigned to N ?

- (a) 4
- (b) 5
- (c) 6
- (d) 7

26. If MINERAL is written as QRSTUVW and SOUND is written as ABCSD, then how will READER be written in the same code ?

- (a) SBFDFS
- (b) UTVDTU
- (c) TUDVUT
- (d) QDZCDQ

27. If the word PORTER can be coded as MBNZQN, then how can REPORT be coded ?

- (a) NQMNBZ
- (b) NQMBNZ
- (c) NBQMNZ
- (d) NQBMNZ

28. If the letters in PRABA are coded as 27595 and THILAK are coded as 368451, how will BHARATI be coded ?

- (a) 9567568
- (b) 9675538
- (c) 9657538
- (d) 9567538

29. If in a certain code language, PREMONITION is written as 68530492904, how will the word MONITOR be written in that code language ?

- (a) 1234567
- (b) 3029408
- (c) 3049208
- (d) 3049258

**Directions (Questions no. 30 - 33) :** In these questions, some symbols have been used for some mathematical operations as indicated below :

$\times$  for 'greater than';  $\odot$  for 'not less than';  $\div$  for 'not equal to';  $\emptyset$  for 'equal to',  $+$  for 'not greater than';  $\Delta$  for 'less than'.

Using these symbols, choose the correct alternative in each of the following questions.

30. If  $a \odot b \times c$ , it implies that

- (a)  $a \odot b \emptyset c$
- (b)  $a \Delta b \odot c$
- (c)  $a \times c + b$
- (d)  $c \times b \times a$

31. If  $a \times b \Delta c$ , it implies that

- (a)  $c + b \odot a$
- (b)  $a \odot b + c$
- (c)  $b \odot a \times c$
- (d)  $a \emptyset c \Delta b$



32. If  $a \Delta b \Delta c$ , it does **not** imply that

- (a)  $a \times c \times b$
- (b)  $a \Delta c \times b$
- (c)  $c \times b \times a$
- (d)  $b \times a \Delta c$

33. If  $a + b + c$ , it does **not** imply that

- (a)  $a \Delta b \emptyset c$
- (b)  $a \Delta b \Delta c$
- (c)  $c \emptyset b \Delta a$
- (d)  $a \emptyset b \Delta c$

**Directions (Questions no. 34 – 35) :** There is a certain relation between two given words on one side of :: and one word is given on another side of :: while another word is to be found from the given alternatives, having the same relation with this word as the given pair has.

Select the best alternative.

34. Antiseptic : Germs :: Antidote : ?

- (a) Allergy
- (b) Poison
- (c) Wound
- (d) Infection

35. Eye : Wink :: Heart : ?

- (a) Move
- (b) Throb
- (c) Pump
- (d) Quiver

**Directions (Questions no. 36 – 39) :** In each of the questions below are given three statements followed by three conclusions numbered I, II, and III. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

36. **Statements :**

All stores are baskets.  
Some baskets are sticks.  
All sticks are chains.

**Conclusions :**

- I. Some chains are stores.
- II. Some sticks are stores.
- III. Some chains are baskets.
- (a) None follows
- (b) Only I follows
- (c) Only II follows
- (d) Only III follows

37. **Statements :**

Some desks are chairs.  
All chairs are ropes.  
Some ropes are walls.

**Conclusions :**

- I. Some ropes are desks.
- II. Some walls are chairs.
- III. Some ropes are chairs.
- (a) Only I and II follow
- (b) Only I and III follow
- (c) Only II and III follow
- (d) All I, II and III follow

38. **Statements :**

All rooms are wires.  
All wires are roads.  
All roads are cars.

**Conclusions :**

- I. Some cars are rooms.
- II. Some roads are rooms.
- III. Some cars are wires.
- (a) Only I and II follow
- (b) Only II and III follow
- (c) Only I and III follow
- (d) All I, II and III follow

**39. Statements :**

All tables are pencils.  
No pencil is box.  
Some boxes are mats.

**Conclusions :**

- I. Some mats are pencils.
- II. Some boxes are tables.
- III. Some mats are tables.

- (a) None follows
  - (b) Only I follows
  - (c) Only II follows
  - (d) Only III follows
- 40.** In a certain code language, '234' means 'spark and fire', '456' means 'spark is cause' and '258' means 'fire is effect'. Which of the following numerals is used for 'cause' ?
- (a) 3
  - (b) 4
  - (c) 5
  - (d) 6
- 41.** In a certain code, '467' means 'leaves are green', '485' means 'green is good' and '639' means 'they are playing'. Which digit stands for 'leaves' in that code ?
- (a) 4
  - (b) 6
  - (c) 7
  - (d) 3

**Directions (Questions no. 42 - 45) :** Read the following information carefully and answer the questions that follow :

In a certain coding system,

'816321' means 'the brown dog frightened the cat';

'64851' means 'the frightened cat ran away';

'7621' means 'the cat was brown';

'341' means 'the dog ran'.

- 42.** What is the code for 'the dog was frightened' ?
- (a) 5438
  - (b) 8263
  - (c) 8731
  - (d) None of these

- 43.** What is the code for 'frightened' ?

- (a) 2
- (b) 3
- (c) 6
- (d) 8

- 44.** What is the code for 'away' ?

- (a) 1
- (b) 5
- (c) 6
- (d) 7

- 45.** What is the code for 'brown' ?

- (a) 2
- (b) 4
- (c) 6
- (d) 8

- 46.** Pointing to a man on the stage, Rashi said, "He is the brother of the daughter of the wife of my husband." How is the man on the stage related to Rashi ?

- (a) Son
- (b) Husband
- (c) Cousin
- (d) Nephew

- 47.** Introducing a man to her husband, a woman said, "His brother's father is the only son of my grandfather." How is the woman related to this man ?

- (a) Mother
- (b) Aunt
- (c) Sister
- (d) Daughter

- 48.** If Neena says, "Anita's father Raman is the only son of my father-in-law Mahipal," then how is Bindu, who is the sister of Anita, related to Mahipal ?

- (a) Niece
- (b) Daughter
- (c) Wife
- (d) None of these



**Directions (Questions no. 49 – 53) :**  
*Study the following information carefully and answer the questions given below it :*

There are five friends A, B, C, D and E. Two of them are businessmen while the other three belong to different occupations viz., medical, engineer and legal. One businessman and the lawyer stay in the same locality S, while the other three stay in three different localities P, Q and R. Two of these five persons are Hindus while the remaining three come from three different communities viz. Muslim, Christian and Sikh. The lawyer is the oldest in age while one of the businessmen who runs a factory is the youngest. The other businessman is a cloth merchant and age-wise lies between the doctor and the lawyer. D is a cloth merchant and stays in locality S, while E is a Muslim and stays in locality R. The doctor is a Christian and stays in locality P, B is a Sikh while A is a Hindu and runs a factory.

49. Who stays in locality Q ?  
(a) A  
(b) B  
(c) C  
(d) E
50. What is E's occupation ?  
(a) Businessman  
(b) Engineer  
(c) Lawyer  
(d) Doctor
51. Age-wise who among the following lies between A and C ?  
(a) Lawyer  
(b) Doctor  
(c) Cloth merchant  
(d) Engineer
52. What is B's occupation ?  
(a) Businessman  
(b) Engineer  
(c) Lawyer  
(d) Doctor
53. What is C's occupation ?  
(a) Doctor  
(b) Lawyer  
(c) Engineer  
(d) Businessman

**Directions (Questions no. 54 – 56) :** *Read the following information and answer the questions given below it :*

Six students A, B, C, D, E and F are sitting in the field. A and B are from Nehru House while the rest belong to Gandhi House. D and F are tall while the others are short. A, C and D are wearing glasses while the others are not.

54. Which two students, who are not wearing glasses, are short ?  
(a) A and F  
(b) C and E  
(c) B and E  
(d) E and F
55. Which short student of Gandhi House is not wearing glasses ?  
(a) F  
(b) E  
(c) B  
(d) A
56. Which tall student of Gandhi House is not wearing glasses ?  
(a) B  
(b) C  
(c) E  
(d) F



57. Six students A, B, C, D, E and F are sitting in the field. A and B are from Delhi while the rest are from Bangalore. D and F are tall while others are short. A, C and D are girls while others are boys. Which is the tall girl from Bangalore ?

(a) C  
(b) D  
(c) E  
(d) F

58. On a shelf are placed six volumes side-by-side labelled A, B, C, D, E and F. B, C, E, F have green covers while others have yellow covers. A, D, B are new volumes while the rest are old volumes. A, C, B are law reports while the rest are medical extracts. Which two volumes are old medical extracts and have green covers ?

(a) B, C  
(b) C, D  
(c) C, E  
(d) E, F

59. In a group of six women, there are four dancers, four vocal musicians, one actress and three violinists. Girija and Vanaja are among the violinists while Jalaja and Shailja do not know how to play on the violin. Shailja and Tanuja are among the dancers. Jalaja, Vanaja, Shailja and Tanuja are all vocal musicians and two of them are also violinists. If Pooja is an actress, who among the following is both a dancer and a violinist ?

(a) Jalaja  
(b) Shailja  
(c) Tanuja  
(d) Pooja

**Directions (Questions no. 60 – 64) :** Read the following information to answer the questions that follow :

- (I) A, B, C, D, E, F and G are sitting in a circle facing at the centre and playing cards.  
(II) E is the neighbour of A and D.  
(III) G is not between F and C.  
(IV) F is to the immediate right of A.

60. Which of the following does not have the pair of persons sitting adjacent to each other ?

(a) BA  
(b) CB  
(c) DE  
(d) GD

61. Which of the following pairs has the second person sitting immediately to the right of the first ?

(a) AB  
(b) CB  
(c) EA  
(d) DG

62. What is the position of F ?

(a) Third to the left of C  
(b) Second to the right of C  
(c) To the immediate left of A  
(d) None of these

63. Who are the neighbours of B ?

(a) A and F  
(b) C and D  
(c) F and C  
(d) Data inadequate



64. Which of the following persons are sitting adjacent to each other from left to right in the order as shown ?

(a) BGC  
(b) FBC  
(c) CDG  
(d) EDG

65. In a pile of 10 books, there are 3 of History, 3 of Hindi, 2 of Mathematics and 2 of English. Taking from above, there is an English book between a History and Mathematics book, a History book between a Mathematics and an English book, a Hindi book between an English and a Mathematics book, a Mathematics book between two Hindi books and two Hindi books between a Mathematics and a History book. Book of which subject is at the sixth position from the top ?

(a) English  
(b) Hindi  
(c) Mathematics  
(d) History

66. Five children were administered psychological tests to know their intellectual levels. In the report, psychologists pointed out that the child A is less intelligent than the child B. The child C is less intelligent than the child D. The child B is less intelligent than the child C and the child A is more intelligent than the child E. Which child is the most intelligent ?

(a) A  
(b) B  
(c) D  
(d) E

**Directions (Questions no. 67 – 71) :** Read the following information carefully and answer the questions given below it :

There are five men A, B, C, D, and E and six women P, Q, R, S, T and U. A, B and R are advocates; C, D, P, Q and S are doctors and the rest are teachers. Some teams are to be selected from amongst these eleven persons subject to the following conditions :

A, P and U have to be together.

B cannot go with D or R.

E and Q have to be together.

C and T have to be together.

D and P cannot go together.

C cannot go with Q.

67. If the team is to consist of two male advocates, two lady doctors and one teacher, the members of the team are

(a) A, B, P, Q, U  
(b) A, B, P, U, S  
(c) A, P, R, S, U  
(d) B, E, Q, R, S

68. If the team is to consist of one advocate, two doctors, three teachers and C may not go with T, the members of the team are

(a) A, E, P, Q, S, U  
(b) A, E, P, Q, T, U  
(c) B, E, Q, S, T, U  
(d) E, Q, R, S, T, U

69. If the team is to consist of one male advocate, one male doctor, one lady doctor and two teachers, the members of the team are

(a) A, C, P, T, U  
(b) A, D, E, P, T  
(c) A, D, E, P, U  
(d) B, C, E, Q, U



70. If the team is to consist of one advocate, three doctors and one male teacher, the members of the team are

- (a) A, D, P, S, U
- (b) C, D, R, S, T
- (c) D, E, Q, R, S
- (d) D, E, Q, R, T

71. If the team is to consist of two advocates, two doctors, two teachers and not more than three ladies, the members of the team are

- (a) A, B, C, P, T, U
- (b) A, C, P, R, T, U
- (c) A, E, P, Q, R, T
- (d) B, C, E, Q, R, T

72. A villager went to meet his uncle in another village situated 5 km away in the North-east direction of his own village. From there he came to meet his father-in-law living in a village situated 4 km in the South of his uncle's village. How far away and in what direction is he now?

- (a) 3 km in the North
- (b) 3 km in the East
- (c) 4 km in the East
- (d) 4 km in the West

73. There are four towns P, Q, R, and T. Q is to the South-west of P, R is to the east of Q and South-east of P, and T is to the North of R in line with QP. In which direction of P is T located?

- (a) South-east
- (b) North
- (c) North-east
- (d) East

74. The post office is to the East of the school while my house is to the South of the school. The market is to the North of the post office. If the distance of the market from the post office is equal to the distance of my house from the school, in which direction is the market with respect to my school?

- (a) North
- (b) East
- (c) North-east
- (d) South-west

**Directions (Questions no. 75 - 77) :**  
Study the information given below carefully and answer the questions that follow :

A, B, C, D, E, F, G, H and I are nine houses. C is 2 km East of B. A is 1 km North of B and H is 2 km South of A. G is 1 km west of H while D is 3 km East of G and F is 2 km North of G. I is situated just in middle of B and C while E is just in the middle of H and D.

75. Distance between E and G is

- (a) 1 km
- (b) 1.5 km
- (c) 2 km
- (d) 5 km

76. Distance between E and I is

- (a) 1 km
- (b) 2 km
- (c) 3 km
- (d) 4 km

77. Distance between A and F is

- (a) 1 km
- (b) 1.41 km
- (c) 2 km
- (d) 3 km



78. If the first and second letters in the word DEPRESSION were interchanged, also the third and the fourth letters, the fifth and the sixth letters and so on, which of the following would be the seventh letter from the right ?

- (a) R
- (b) O
- (c) S
- (d) None of these

79. If in the word DISTURBANCE, the first letter is interchanged with the last letter, the second letter is interchanged with the tenth letter and so on, which letter would come after 'T' in the newly formed word ?

- (a) I
- (b) N
- (c) S
- (d) D

80. How many L's are there which do not have R preceding them and also do not have T following them?

Z Q S T L R M N Q N R T U V X R L T  
A S L T Q R S L T

- (a) 1
- (b) 2
- (c) 3
- (d) 5

81. In a row of forty children, P is thirteenth from the left end and Q is ninth from the right end. How many children are there between P and R if R is fourth to the left of Q ?

- (a) 12
- (b) 13
- (c) 14
- (d) 15

82. N ranks fifth in a class. S is eighth from the last. If T is sixth after N and just in the middle of N and S, then how many students are there in the class ?

- (a) 23
- (b) 24
- (c) 25
- (d) 26

**Directions (Questions no. 83 – 86) :** There is a certain relation between two given words on one side of :: and one word is given on another side of :: while another word is to be found from the given alternatives, having the same relation with this word as the given pair has.

Select the best alternative.

83. Sedative : Pain :: Solace : ?

- (a) Irritation
- (b) Kill
- (c) Grief
- (d) Relief

84. Circle : Circumference :: Square : ?

- (a) Volume
- (b) Area
- (c) Diagonal
- (d) Perimeter

85. Dungeon : Confinement :: Asylum : ?

- (a) Refuge
- (b) Mercy
- (c) Truancy
- (d) Remorse

86. Court : Justice :: School : ?

- (a) Teacher
- (b) Student
- (c) Ignorance
- (d) Education



**Directions (Questions no. 87 – 88) :** In each of the following letter series, some of the letters are missing which are given in that order as one of the alternatives below it. Choose the correct alternative.

87. \_ tu \_ rt \_ s \_ \_ usrtu \_

- (a) rtusru
- (b) rsutrr
- (c) rsurtr
- (d) rsurts

88. ba \_ cb \_ b \_ bab \_

- (a) acbb
- (b) bacc
- (c) bcaa
- (d) cabb

89. In the question given below, there are two statements labelled as Assertion (A) and Reason (R).

**Assertion (A) :** Tides indicate the regular and periodic rise and fall in sea level.

**Reason (R) :** Tides are caused by the gravitational pull of the Moon and the Sun.

Mark your answer as per the code provided below :

- (a) Both (A) and (R) are true and (R) is the correct explanation of (A)
- (b) Both (A) and (R) are true, but (R) is not the correct explanation of (A)
- (c) (A) is true, but (R) is false
- (d) (A) is false, but (R) is true

**Directions (Questions 90 – 92) :** Read the following information to answer these questions :

Seven poles A, B, C, D, E, F and G are put in such a way that the distance between the next two decreases by 1 metre. The distance between the first two poles, A and B, is 10 metres.

90. What is the distance between the first pole A and the last pole G ?

- (a) 40 metres
- (b) 45 metres
- (c) 49 metres
- (d) None of these

91. If a monkey hops from pole G to pole C, then how much distance did it cover ?

- (a) 19 metres
- (b) 22 metres
- (c) 26 metres
- (d) None of these

92. If the authorities decide to remove one pole and place the remaining on equal distance among the poles, then each set of poles would be \_\_\_\_\_ metres apart.

- (a) 7.5
- (b) 8.5
- (c) 9
- (d) None of these



93. In three coloured boxes – Red, Green and Blue, 108 balls are placed. There are twice as many balls in the green and red boxes combined as there are in the blue box and twice as many in the blue box as there are in the red box. How many balls are there in the green box ?

- (a) 18
- (b) 36
- (c) 45
- (d) None of these

94. Two bus tickets from city A to B and three tickets from city A to C cost ₹ 77 but three tickets from city A to B and two tickets from city A to C cost ₹ 73. What are the fares for cities B and C respectively from A ?

- (a) ₹ 4, ₹ 23
- (b) ₹ 13, ₹ 17
- (c) ₹ 15, ₹ 14
- (d) ₹ 17, ₹ 13

**Directions (Questions no. 95 – 99) :** The following questions are based on the information given below :

Data on 450 candidates, who took an examination in Social Science, Mathematics and Science is given below :

Passed in all the subjects	167
Failed in all the subjects	60
Failed in Social Science	175
Failed in Mathematics	199
Failed in Science	191
Passed in Social Science only	62
Passed in Mathematics only	48
Passed in Science only	52

95. How many failed in Social Science only ?

- (a) 15
- (b) 21
- (c) 30
- (d) 42

96. How many failed in one subject only ?

- (a) 152
- (b) 144
- (c) 61
- (d) 56

97. How many passed in Mathematics and at least one more subject ?

- (a) 210
- (b) 203
- (c) 170
- (d) 94

98. How many failed in two subjects only ?

- (a) 56
- (b) 61
- (c) 152
- (d) 162

99. How many passed at least in one subject ?

- (a) 450
- (b) 390
- (c) 304
- (d) 167

100. Pointing to a girl in the photograph, Amar said, "Her mother's brother is the only son of my mother's father." How is the girl's mother related to Amar ?

- (a) Mother
- (b) Sister
- (c) Aunt
- (d) Grandmother



101. 'Earth Hour' is a worldwide movement to raise the awareness about climate change and this movement is organized by

- (a) UNEP
- (b) WWF
- (c) UNESCO
- (d) UNDP

102. Which of the following are covered under the smart city mission in Punjab ?

- I. Ludhiana
- II. Amritsar
- III. Patiala
- IV. Jalandhar

Choose the correct code :

- (a) I, II and IV
- (b) I, II and III
- (c) I, III and IV
- (d) I, II, III and IV

103. Android is a mobile operating system designed for the smart phones and this system was developed by which one of the following ?

- (a) Apple
- (b) Microsoft
- (c) Google
- (d) Blackberry

104. Which submarine is the first indigenously built Scorpene class submarine that has been commissioned into the Indian Navy ?

- (a) INS Kaveri
- (b) INS Kalvari
- (c) INS Kadambari
- (d) INS Kolaveri

105. Match List I and List II and select the correct answer :

List I	List II
A. Mach	I. Sound
B. Decibel	II. Speed
C. Hertz	III. Distance
D. Parsec	IV. Frequency

Choose the correct code :

	A	B	C	D
(a)	I	II	III	IV
(b)	II	I	IV	III
(c)	II	IV	I	III
(d)	IV	I	III	II

106. The Constitution of India empowers the Supreme Court of India to adjudicate disputes between the Centre and States through

- (a) Writ Jurisdiction
- (b) Appellate Jurisdiction
- (c) Advisory Jurisdiction
- (d) Original Jurisdiction

107. Which of the following is/are included in the Directive Principles of State Policy ?

- I. Prohibition of traffic in human beings and forced labour
- II. Prohibition of consumption except for medicinal purposes of intoxicating drinks and of other drugs which are injurious to health

Select the correct answer using the code given below :

- (a) I only
- (b) II only
- (c) Both I and II
- (d) Neither I nor II



108. The Prime Minister Narendra Modi has launched a new scheme "Pradhan Mantri Sahaj Bijli Har Ghar Yojana" to ensure electrification of all willing households in the country and this scheme is also named as
- Navjyoti
  - Ujala
  - Saubhagya
  - Nai Roshni
109. Which of the following navigation systems has been developed by India ?
- BeiDou
  - GLONASS
  - GPS
  - NAVIC
110. Which of the following schemes of the Government of India are correctly matched ?
- |                          |                         |
|--------------------------|-------------------------|
| I. PAHAL                 | - LPG Subsidy           |
| II. Aayushman Bharat     | - Health Care Scheme    |
| III. AMRUT               | - Urban Development     |
| IV. Mission Indradhanush | - Vaccination Programme |
- Choose the correct code :
- I, III and IV
  - II and IV
  - I, II and IV
  - I, II, III and IV
111. ISRO has launched India's 100<sup>th</sup> satellite in the space through PSLV-C40 from Sriharikota in January 2018. This satellite belongs to which of the following series ?
- EDUSAT
  - OCEANSAT
  - CARTOSAT-2
  - METSAT
112. Which country has become the first country to grant citizenship to a robot ?
- UAE
  - Saudi Arabia
  - USA
  - Sweden
113. In India, who is the Chairman of the National Water Resources Council ?
- Prime Minister
  - Minister of Water Resources
  - Minister of Environment and Forests
  - Minister of Science and Technology
114. Match the following :
- | List I                  | List II            |
|-------------------------|--------------------|
| A. Guru Nanak Dev ji    | I. Anand Sahib     |
| B. Guru Gobind Singh ji | II. Lavan          |
| C. Guru Ram Das ji      | III. Asa Di Vaar   |
| D. Guru Amar Das ji     | IV. Bachitra Natak |
- Choose the correct code :
- |     | A   | B   | C  | D   |
|-----|-----|-----|----|-----|
| (a) | IV  | III | I  | II  |
| (b) | III | IV  | II | I   |
| (c) | II  | III | I  | IV  |
| (d) | I   | II  | IV | III |
115. Which of the following is **not** true about Baba Banda Singh Bahadur ji ?
- His original name was Lachman Dev.
  - He made the fort of Mukhlispur as his capital and renamed it as Lohgarh.
  - He was captured and killed on the orders of the Mughal Emperor Aurangzeb.
  - The name of his son was Ajai Singh.
- Choose the correct code :
- Both II and III
  - IV only
  - III only
  - Both III and IV

116. Match the Misls with their founders :

List I	List II
A. Bhangi Misl	I. Jai Singh
B. Kanhaiya Misl	II. Nawab Kapur Singh
C. Singhpuria or Faizalpuria Misl	III. Buddha Singh
D. Sukerchakia Misl	IV. Hari Singh Dhillon

Choose the correct code :

A	B	C	D
(a) I	II	III	IV
(b) II	I	II	IV
(c) III	IV	I	II
(d) IV	I	II	III

117. 'Jaito Morcha' was for which one of the following ?

- (a) For getting Sikh Gurudwara Act, 1925 passed
- (b) For restoration of Maharaja Ripudaman Singh of Nabha to his throne
- (c) For letting Sikhs cut timber from garden of Gurudwara for Guru Ka Langar
- (d) For letting people pray in Gurudwara Gangsar of Jaito

118. Which of the following statements is **not** true about Bhagat Singh ?

- I. He was born in Sandhu Jat family in 1907 and studied at Dayanand Anglo Vedic School in Lahore.
- II. He founded the Punjab Naujawan Sabha in 1926 and was himself the Secretary.
- III. He assassinated Superintendent of Police Mr. Scott in 1928.
- IV. He threw bombs in Central Legislative Assembly against passage of Government of India Act, 1919.

Choose the correct code :

- (a) II and III
- (b) III and IV
- (c) II, III and IV
- (d) II and IV

119. Which city of Punjab is one among the top 20 most polluted cities of the world according to a recent report released by WHO in the year 2018 ?

- (a) Ludhiana
- (b) Mandi Gobindgarh
- (c) Amritsar
- (d) Patiala

120. Match the following Ministers of Punjab with their current portfolios :

List I	List II
A. Vijay Inder Singla	I. Power and New & Renewable Energy Sources
B. Aruna Chaudhary	II. School Education
C. Om Parkash Soni	III. Transport
D. Gurpreet Singh Kangar	IV. Public Works

Choose the correct code :

A	B	C	D
(a) III	IV	I	II
(b) IV	III	II	I
(c) I	II	III	IV
(d) III	I	IV	II

121. The President of South Korea is

- (a) Kim Jong-un
- (b) Moon Jae-in
- (c) Ban Ki-Moon
- (d) Kim Jinping

122. The recently appointed new President of Cuba is

- (a) Raul Castro
- (b) Miguel Castro
- (c) Joshua Demento
- (d) Miguel Diaz-Canel



123. The Armed Forces Special Protection Act (AFSPA) has been completely removed from which one of the following States from March 31 ?  
 (a) Meghalaya  
 (b) Tripura  
 (c) Mizoram  
 (d) Nagaland
124. Indian Prime Minister Narendra Modi and President of China Xi Jinping recently (in April 2018) met in which city of China ?  
 (a) Beijing  
 (b) Wuhan  
 (c) Shanghai  
 (d) Guangzhou
125. Who is the Chairman of the Punjab Kala Parishad ?  
 (a) Satinder Satti  
 (b) Navjot Singh Sidhu  
 (c) Surjit Patar  
 (d) Gurpreet Singh
126. The recently concluded Commonwealth Games, 2018 were held at  
 (a) Gold Coast  
 (b) Sydney  
 (c) Melbourne  
 (d) Ivory Coast
127. The recent controversy involving the misuse of personal data of users by Facebook has which of the following British marketing firms at the centre of the controversy ?  
 (a) Cambridge Interpublica  
 (b) WPP London  
 (c) Ernst and Young  
 (d) Cambridge Analytica
128. The common TV remote control uses which of the following waves ?  
 (a) Straight waves  
 (b) Lasers  
 (c) Infrared waves  
 (d) Ultrasonic waves
129. Which of the following statement(s) is/are correct about Ultrasonic Waves/Ultrasound ?  
 I. Ultrasonic waves find application in range-finding using RADAR.  
 II. Like bats and dogs, dolphins and whales can also hear ultrasound produced by ultrasonic waves.  
 III. The most well-known application of ultrasound is its being used in sonography to produce pictures of fetuses in the human womb.  
 Choose the correct code :  
 (a) Only I is correct  
 (b) Only III is correct  
 (c) II and III are correct  
 (d) All of them are correct
130. Which of the given statements about the Jallianwala Bagh Massacre is/are correct ?  
 I. General Dyer was the then Lieutenant-Governor of the Punjab.  
 II. The victims gathered in the bagh or garden to protest against the arrest and deportation of their popular leaders, Dr. Satyapal and Dr. Kitchlu.  
 III. Michael O'Dwyer was the person who ordered police firing on the unarmed crowd.  
 IV. Rabindranath Tagore renounced his knighthood in protest of the killings.  
 Select the correct answer using the codes given below :  
 (a) I and II  
 (b) III and IV  
 (c) II and IV  
 (d) II only

131. Gandhiji sent an eleven point ultimatum to Lord Irwin before starting the Civil Disobedience Movement. Which of the following was **not** included in it ?

- (a) 50% reduction in land revenue and abolition of the Salt Tax and Government Salt monopoly
- (b) 50% cut in military expenditure and expenditure on civil administration
- (c) Prohibition of cow slaughter and use of khadi
- (d) Release of all political prisoners

132. The authorization for the withdrawal of funds from the Consolidated Fund of India must come from

- (a) The President of India
- (b) The Parliament of India
- (c) The Prime Minister of India
- (d) The Union Finance Minister

133. Which one of the following pairs is/are correctly matched ?

- I. Surendranath – Home Rule  
Banerjee Movement
- II. Lala Hardayal – Organised Indian  
National Army in  
Europe for India's  
freedom
- III. Raja – Opposed the  
Radhakanta abolition of the  
Deb practice of Sati
- IV. Syed Ahmad – Founder of the  
Khan Muslim League  
in 1906

Choose the correct code :

- (a) I and II
- (b) II and III
- (c) III and IV
- (d) III only

134. Match the following :

List I		List II	
A.	Bhagat Singh	I.	Chittagong Armoury Raid
B.	Laxmi Sehgal	II.	Kakori Conspiracy Case
C.	Ram Prasad Bismil	III.	Indian National Army
D.	Surya Sen	IV.	Lahore Conspiracy Case

Choose the correct code :

- |     | A  | B   | C   | D  |
|-----|----|-----|-----|----|
| (a) | I  | II  | III | IV |
| (b) | I  | III | II  | IV |
| (c) | IV | II  | III | I  |
| (d) | IV | III | II  | I  |

135. The Ghadr (Ghadar) was a

- (a) Revolutionary association of Indians with headquarters at San Francisco
- (b) Nationalist organisation operating from Singapore
- (c) Nationalist organisation with headquarters at Berlin
- (d) Communist Movement for India's freedom with headquarters at Tashkent

136. Which one of the following began with the Dandi March ?

- (a) Home Rule Movement
- (b) Non-Cooperation Movement
- (c) Civil Disobedience Movement
- (d) Quit India Movement

137. Who among the following used the phrase 'Un-British' to criticize the English colonial control of India ?

- (a) Anand Mohan Bose
- (b) Badruddin Tyabji
- (c) Dadabhai Naoroji
- (d) Pherozeshah Mehta



138. Consider the following statements :

- I. Robert Clive was the first Governor-General of Bengal.
- II. William Bentinck became the first Governor-General of India in 1833.

Which of the statement(s) given above is/are correct ?

- (a) I only
- (b) II only
- (c) Both I and II
- (d) Neither I nor II

139. Consider the following statements.

- I. Lord Mountbatten was the Viceroy when Simla Conference took place.
- II. Indian Navy Revolt, 1946 took place when the Indian sailors in the Royal Indian Navy at Bombay and Karachi rose against the government.

Which of the statement(s) given above is/are correct ?

- (a) I only
- (b) II only
- (c) Both I and II
- (d) Neither I nor II

140. Under the Constitution of India, which one of the following is **not** a fundamental duty ?

- (a) To vote in public elections
- (b) To develop the scientific temper
- (c) To safeguard public property
- (d) To abide by the Constitution and respect its ideals

141. Global agreement in specific control strategies to reduce the release of ozone depleting substances, was adopted by

- (a) Rio de Janeiro Conference
- (b) Montreal Protocol
- (c) Kyoto Protocol
- (d) Vienna Convention

142. Which of the following is correct about CITES ?

- I. It contains provisions to protect wildlife species from illegal trade, habitat destruction and climate change.
- II. It releases Red List of endangered species with the help of IUCN.

Select the correct answer using the code given below :

- (a) I only
- (b) II only
- (c) Both I and II
- (d) None of these

143. Which of the following species in India are critically endangered according to recent IUCN Red List ?

- I. Great Indian Bustard
- II. Siberian Crane
- III. Baer's Pochard
- IV. Nilgiri Mystus

Select the correct answer using the code given below:

- (a) I and II
- (b) I, II and III
- (c) I, III and IV
- (d) All of the above

144. The term 'Goldilocks Zone' is often seen in the news in the context of

- (a) The limits of habitable zone above the surface of the Earth
- (b) Regions inside the Earth where shale gas is available
- (c) Search for the Earth-like planets in outer space
- (d) Search for meteorites containing precious metals



145. If a wetland of international importance is brought under the 'Montreux Record', what does it imply?

- (a) Changes in ecological character have occurred, are occurring or are likely to occur in the wetland as a result of human interference.
- (b) The country in which the wetland is located should enact a law to prohibit any human activity within 5 km from the edge of the wetland.
- (c) The survival of the wetland depends on the cultural practices and traditions of certain communities living in its vicinity and therefore the cultural diversity therein should not be destroyed.
- (d) It is given the status of 'World Heritage Site'.

146. Consider the following pairs :

- I. Harike Wetland : Confluence of Beas and Satluj/Sutlej
- II. Keoladeo Ghana : Confluence of Banas and Chambal
- III. Kolleru Lake : Confluence of Musi and Krishna

Which of the pairs given above is/are correctly matched?

- (a) I only
- (b) II and III
- (c) I and III
- (d) I, II and III

147. What would happen if phytoplankton of an ocean is completely destroyed for some reasons?

- I. The ocean as a carbon sink would be adversely affected.
- II. The food chains in the ocean would be adversely affected.
- III. The density and volume of ocean water would drastically decrease.

Select the correct answer using the codes given below :

- (a) I and II
- (b) II only
- (c) III only
- (d) I, II and III

148. The first three Indian females who scripted history by becoming the first-ever women to undergo fighter pilot training in Indian Air Force are :

- (a) Avani Chaturvedi  
Bhawana Kanth  
Mohana Singh
- (b) Avani Chaturvedi  
Malvika Singh  
Mohana Singh
- (c) Malvika Singh  
Bhawana Kanth  
Anamika Chaturvedi
- (d) Anamika Chaturvedi  
Mohana Singh  
Avani Chaturvedi

149. A writ of 'Prohibition' is issued by the Superior Court

- (a) To prevent an inferior court or tribunal from exceeding its jurisdictions or acting contrary to the rules of natural justice.
- (b) To an inferior court or body exercising judicial or quasi-judicial functions to transfer the record of proceedings in a case for its review.
- (c) Whereby it can call upon a person to show under what authority he is holding the office.
- (d) To an authority to produce an illegally detained person before the court for trial.



150. In the event of a vacancy in the offices of both the President and the Vice President of India, the person who performs the duty of a President is
- The Speaker of Lok Sabha
  - The Chief Justice of India
  - The Chairman of Rajya Sabha
  - The Attorney General

151. Which of the following will be the consequences of declaration of National Emergency by the President ?

- The President can issue directives to the State Executives.
- The President can extend the normal tenure of the Lok Sabha.
- The President can suspend all the Fundamental Rights of citizens.
- The President can modify the distribution pattern of financial resources between Centre and States.

Select the correct answer using the code given below :

- I, III and IV
- I, II and IV
- I, II and III
- All of the above

152. Which of the following statements about the Vice President of India are **not** correct?

- In order to be Vice President, a person must be qualified for election as a member of Lok Sabha.
- A member of the State Legislative Assembly can seek election to that office.
- The term of the office of the Vice President is the same as that of the President.
- He can be removed through a formal impeachment.

Select the correct answer using the code given below :

- I and II
- II and III
- I and IV
- III and IV

153. Quit India Movement was launched in response to

- Cabinet Mission Plan
- Cripps Proposal
- Simon Commission Report
- Wavell Plan

154. The Rowlatt Act aimed at

- Compulsory economic support to war efforts
- Imprisonment without trial and summary procedures for trial
- Suppression of the Khilafat Movement
- Imposition of restriction on freedom of press

155. Which country is going to host the FIFA World Cup in 2018 ?

- France
- Germany
- Spain
- Russia

156. If a Panchayat is dissolved, elections are to be held within a period of

- 1 month
- 3 months
- 6 months
- 1 year

157. Which one of the following pairs is/are correctly matched ?

- Tendulkar : To review the methodology for estimation of poverty
- Saxena : To review the methodology for conducting BPL census in rural areas
- Hashim : On methodology for identification of BPL families in urban areas

Choose the correct code :

- I only
- I and III
- II and III
- All of these



158. Consider the following about the Lead Bank's role in the Lead Bank Scheme :

- I. To coordinate the cooperative banks, commercial banks and other financial institutions in their allotted districts.
- II. To survey and identify the un-banked districts and take initiatives to open bank branches.
- III. To estimate the deposits potential and the credit gaps and fill the vacuum in the districts.

Which of the roles given above is/are correct ?

- (a) I only
- (b) I and III
- (c) II and III
- (d) All of these

159. Choose the correct statements regarding NABARD.

- (a) NABARD is an apex development bank in India having headquarters based in Mumbai.
- (b) NABARD was established on 12th July, 1982 by a special act of Parliament.
- (c) RBI sold its stake in NABARD to the Government of India, which now holds 99% stake. NABARD was established on the recommendations of Shivaraman Committee.
- (d) All of the above

160. Heritage City Development and Augmentation Yojana (HRIDAY) aims to bring together urban planning, economic growth and heritage conservation besides beautification in an inclusive and integrated manner with focus on

- I. Cleanliness
- II. Drainage
- III. Water supply and sanitation
- IV. Waste management

Select the correct answer using the code given below :

- (a) I, II, III and IV
- (b) I, II and III
- (c) II and III
- (d) Only IV

161. The 'Swadeshi' and 'Boycott' were adopted as methods of struggle for the first time during the

- (a) Agitation against the partition of Bengal
- (b) Home Rule Movement
- (c) Non-Cooperation Movement
- (d) Visit of the Simon Commission to India

162. Consider the following statements regarding Masala Bonds :

- I. These are issued outside India but denominated in Indian rupees.
- II. The currency risk or exchange rate risks are borne by investors.
- III. Multilateral and regional financial institutions are not allowed to invest in these bonds.

Which of the above statements is/are correct ?

- (a) I only
- (b) I and II
- (c) II and III
- (d) I, II and III

163. In the context of Geosynchronous Satellite Launch Vehicle (GSLV) which of the following statements are **true** ?

- I. It was developed to launch INSAT series of satellites.
- II. It places satellites into Geosynchronous Transfer orbits.
- III. It has 3-stage launch.
- IV. It cannot use cryogenic engine.

Select the correct answer using the code given below :

- (a) I and II
- (b) I, II and III
- (c) I, II and IV
- (d) II, III and IV



164. In the context of cryogenic engines, which of the following statements are true ?

- I. It is most efficient and provides more thrust for every kilogram of propellant it burns.
- II. It uses liquid hydrogen and liquid oxygen at high temperature.
- III. It uses liquid hydrogen and liquid oxygen at very low temperature.
- IV. After USA, Russia, EU, China and Japan, India too has this.

Select the correct answer using the code given below :

- (a) I and II
- (b) I and III
- (c) I, III and IV
- (d) I, II and IV

165. 'MALABAR' is a naval exercise between India, Japan and

- (a) Singapore
- (b) USA
- (c) China
- (d) Britain

166. Match the following lists :

List I (Warhead)		List II (Type)	
A. Tejas	I.	Air-to-air missile	
B. Arjun	II.	Ship based missile	
C. Dhanush	III.	Main battle tank	
D. Astra	IV.	Light combat aircraft	

Choose the correct code :

- |     | A  | B   | C   | D  |
|-----|----|-----|-----|----|
| (a) | IV | III | II  | I  |
| (b) | I  | II  | III | IV |
| (c) | IV | II  | III | I  |
| (d) | I  | III | II  | IV |

167. Consider the following statements.

- I. In Bt cotton a transgenic plant Bt refers to *Clostridium thuringiensis*.
- II. The Bt gene is derived from a fungi.
- III. Nematode resistant transgenic cotton has been produced by inserting Bt gene.

Which of the statement(s) given above is/are correct ?

- (a) I only
- (b) I and II
- (c) II and III
- (d) None of these

168. Which of the following is correct about Fig 26 ?

- (a) A new patent law enforced in India
- (b) First animal to be created by gene editing
- (c) An energy capsule being used by body builders as food supplements
- (d) An insulin obtained from the Indian pig using the genetic engineering methods

169. Human insulin is being commercially produced from a transgenic species of

- (a) *Saccharomyces*
- (b) *Rhizobium*
- (c) *Agrobacterium*
- (d) *Escherichia*

170. Which American multinational has bought 77% of Flipkart a few days back ?

- (a) Amazon
- (b) Walmart
- (c) Best Buy
- (d) Costco