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Questions & Answers

for

NTSE (Stage-I) 2020-21

INSTRUCTIONS TO CANDIDATES

Read the following instructions carefully before you open the question booklet.

1. Use blue/black ballpoint pen only. There is no negative marking.
2. Part I : MAT : 1 - 100 questions
Part II : SAT : 101 - 200 questions
3. This test booklet contains 200 questions of one mark each. All the questions are compulsory.
4. Answer each question by darkening the one correct alternative among the four choices on the OMR SHEET with blue/black ballpoint pen.

Example:

	Q. No.	Alternatives
Correct way :	1	① ② ③ ④
	Q. No.	Alternatives
Wrong way :	1	ⓧ ⓧ ③ ④

Student must darkening the right oval only after ensuring correct answer on OMR Sheet.

5. Students are not allowed to scratch / alter / change out an answer once marked on OMR Sheet, by using white fluid / eraser / blade / tearing / wearing or in any other form.
6. Separate sheet has been provided for rough work in this test booklet.
7. Please handover the OMR Sheet to the invigilator before leaving the Examination Hall.
8. Darken completely the ovals of your answer on OMR Sheet in the time limit allotted for that particular paper.
9. Your OMR Sheet will be evaluated through electronic scanning process. Incomplete and incorrect entries may render your OMR Sheet invalid.
10. Use of electronic gadgets, calculator, mobile etc., is strictly prohibited.

PART-I : MENTAL ABILITY TEST (MAT)

1. Choose the odd one:

- | | |
|------------|------------|
| (1) Patna | (2) Shimla |
| (3) Bhopal | (4) Ujjain |

Answer (4)

2. Which alternative replaces the question mark?

45,34,25,18,?

- | | |
|--------|--------|
| (1) 11 | (2) 12 |
| (3) 13 | (4) 1 |

Answer (3)

3. 2__13__4__3__ ____3 2 4 1 3

- | | |
|------------|------------|
| (1) 213421 | (2) 421241 |
| (3) 241321 | (4) 123421 |

Answer (2)

4. What will come in place of question mark(?)

ECA, JHF, OMK,?

- | | |
|---------|---------|
| (1) LNP | (2) RPT |
| (3) QPN | (4) TRP |

Answer (4)

5. How many meaningful two-lettered English words can be made by taking letters from the later half of the English alphabet ?

A B C D E F G H I J K L M N O P Q R S T U V W
X Y Z

- | | |
|-----------|---------------------|
| (1) One | (2) Two |
| (3) Three | (4) More than three |

Answer (4)

6. Some letters are given with numbers 1 to 7. Choose the order of the letters by which a meaningful English word can be made:

S O U B R C E
1 2 3 4 5 6 7

- | |
|-------------|
| (1) 4216573 |
| (2) 2416537 |
| (3) 2146357 |
| (4) 2416357 |

Answer (4)

7. Which of the following letters will come in place of question mark (?) in the chain of letters of English alphabet?

BZA DYC FXE ? JVI

- | |
|---------|
| (1) HUG |
| (2) UHG |
| (3) HWG |
| (4) WHG |

Answer (3)

8. Choose the word from the following alternatives which cannot be made with the letters of the given word:

COMPREHENSION

- | | |
|--------------|-------------|
| (1) COMPRISE | (2) PENSION |
| (3) ONION | (4) PREACH |

Answer (4)

9. Choose the alternative which will complete the following sequence:

ZXUQL ?

- | | |
|-------|-------|
| (1) F | (2) E |
| (3) C | (4) H |

Answer (1)

10. In a code language CENTRAL is written as LARTNEC then in that language what will be written for SEMINAR ?

- | | |
|-------------|-------------|
| (1) NARMES | (2) MESIRAN |
| (3) RANIMES | (4) NARISEM |

Answer (3)

11. By using the letters of the word 'AIPR' only once how many meaningful English words can be made ?

- | |
|-----------|
| (1) One |
| (2) Two |
| (3) Three |
| (4) Four |

Answer (1)

12. In the given question if the letters of the word are rearranged then comes the name of one of which of the following alternatives?

LORAMIGD

- | | |
|----------|------------|
| (1) Bird | (2) Animal |
| (3) Tree | (4) Flower |

Answer (4)

13. By using, the letters of ADER only once how many meaningful English words can be made?

- | | |
|-----------|----------|
| (1) One | (2) Two |
| (3) Three | (4) Four |

Answer (3)

14. If in a code language HANUMAN is written as MFSZRFS, then what will BINAY be written in that code language ?

- | | |
|-----------|-----------|
| (1) GSNTD | (2) GNSFD |
| (3) GSNDT | (4) GNSDT |

Answer (2)

15. If in a code language MOTHER is written as OQVJGT, then what way SISTER will be written ?

- | | |
|------------|------------|
| (1) CJUVGT | (2) TJTUFS |
| (3) TJTUES | (4) UKUVGT |

Answer (4)

16. If in a code language A is written as 2, B is written as 4 and C is written as 6, then in that language 12 10 10 8 will be written as

- | |
|----------|
| (1) DEEP |
| (2) DOOR |
| (3) DEAF |
| (4) FEED |

Answer (4)

17. In a symbolic language POCKET is written as QNDJFS, then in that language what will DEAR be written?

- | |
|----------|
| (1) EDBQ |
| (2) CFBQ |
| (3) EDCQ |
| (4) EFDQ |

Answer (1)

18. In a code language CHAIR is written as EGCHT, then in that language PROVE will be written as

- | | |
|-----------|-----------|
| (1) NSNXD | (2) RPPVG |
| (3) NRNUD | (4) RQQUG |

Answer (4)

19. As 'warrior' is related to 'battlefield' in the same way to what is 'Steward' related ?

- | | |
|-----------|----------------|
| (1) Shop | (2) Restaurant |
| (3) Stage | (4) Garage |

Answer (2)

20. As 'white pigeon' is related to 'peace', in the same way 'black colour' is related to which of the following?

- | | |
|--------------|-------------|
| (1) Hospital | (2) Power |
| (3) Sorrow | (4) Bravery |

Answer (2)

21. As 'Chicago' is related to America, in the same way 'Sydney' is related to

- | | |
|-----------|---------------|
| (1) Egypt | (2) Australia |
| (3) India | (4) England |

Answer (2)

22. As the 'Publisher' is related to 'Book', in the same way 'Film' is related to

- | | |
|--------------|-----------|
| (1) Director | (2) Actor |
| (3) Producer | (4) Hero |

Answer (3)

23. As 'Lotus' is related to 'India', in the same way 'Great Britain' is related to

- | | |
|-------------------|----------------|
| (1) Jasmine | (2) Rose |
| (3) Chrysanthemum | (4) White Lily |

Answer (2)

24. Tripura : Agartala :: Mizoram : ?

- | |
|---------------|
| (1) Aizawl |
| (2) Imphal |
| (3) Kavaratti |
| (4) Silvassa |

Answer (1)

25. Rohu : Fish :: Bat : ?

- (1) Amphibian (2) Reptile
 (3) Mamma (4) Aquatic

Answer (3)

26. Thermometer : Temperature :: Lactometer: ?

- (1) Purity of curd
 (2) Purity of milk
 (3) Purity of water
 (4) Atmospheric pressure

Answer (2)

27. Shyam is son of Ram and maternal brother of Jadu, then how is Ram related to Jadu ?

- (1) Paternal uncle (2) Maternal uncle
 (3) Father (4) Maternal grandfather

Answer (2)

28. In a marriage reception, pointing to a lady a man said, 'That lady is the only daughter of the father-in-law of my eldest paternal brother'. What is the relation of that man with the lady?

- (1) Husband's younger brother
 (2) Brother
 (3) Nephew (4) Father

Answer (1)

29. Second : Time :: Pascal: ?

- (1) Resistance (2) Illumination
 (3) Potential (4) Pressure

Answer (4)

30. B is the sister of A and C is the mother of B. How is C related to A ?

- (1) Mother (2) Father
 (3) Maternal aunt (4) Maternal grandfather

Answer (1)

31. Following the pattern of the following letter series fill in the blank. Space:

- ak, eo, is, qa, ue
 (1) lv (2) mw
 (3) nx (4) oe

Answer (2)

32. What will come next in series?

- D, H, L, P,
 (1) Q (2) S
 (3) U (4) T

Answer (4)

33. 10J, 13M, 17Q, 20T,

- (1) 24X
 (2) 25Y
 (3) 26Z
 (4) 23V

Answer (1)

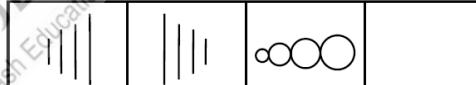
34. Telephone: Graham Bell :: Electric Bulb :?

- (1) J.L. Baird
 (2) Thomas Alva Edison
 (3) James Watt
 (4) G. Marconi

Answer (2)

Q: 35-40 : In each of the following questions a group of three pictures are given. You have to find out the fourth picture. You have to select the answer from (1), (2), (3) or (4)

35.



- A B C D



- (1) (2) (3) (4)

Answer (4)

36.

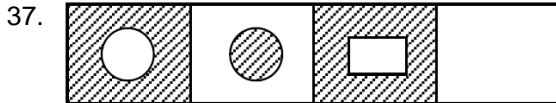


- A B C D



- (1) (2) (3) (4)

Answer (4)



A B C D

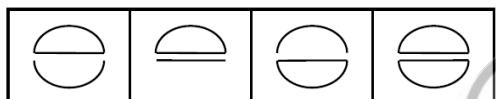


(1) (2) (3) (4)

Answer (2)

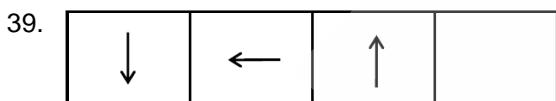


A B C D

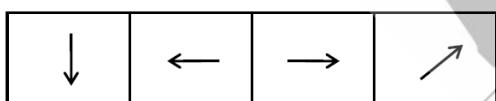


(1) (2) (3) (4)

Answer (4)



A B C D

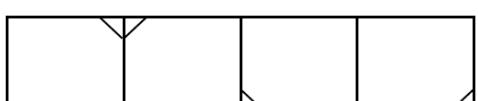


(1) (2) (3) (4)

Answer (3)



A B C D



(1) (2) (3) (4)

Answer (1)

41. If in a code language LPPHGLDW is written as IMMEDIATE then WRSVHFUHW will be written as

- (1) YUVKIXKY
- (2) FAITHFUL
- (3) TOPSBRASS
- (4) TOPSECRET

Answer (4)

42. If TOM = 48 and DICK = 27 then HARRY will mean

- (1) 50
- (2) 60
- (3) 70
- (4) 80

Answer (3)

43. If in a code language SISTER is written as 535301, UNCLE is written as 84670 and BOY is written as 129 then in that language SON will be written as

- (1) 923
- (2) 524
- (3) 342
- (4) 872

Answer (2)

44. If in a code language 5234 is written for RING and 6109 for FAST, then in that language 095234 will be written for

- (1) STRING
- (2) NGRIST
- (3) STRING
- (4) STRIGN

Answer (1)

45. Rita is taller than Neeta but shorter than Sita. Sita is shorter than Gita then who is the tallest among them?

- (1) Rita
- (2) Neeta
- (3) Sita
- (4) Gita

Answer (4)

46. If in a code language FIRE is written as DGPC, then in that code language SHOT will be written as

- (1) FQMR
- (2) QMFR
- (3) QFMR
- (4) QREM

Answer (3)

47. In the way 'horse' is related to 'run' in the same way 'bird' is related to
(1) move (2) run
(3) crawl (4) fly

Answer (4)

48. In the way 'voltmeter' is related to 'potential difference' in the same way 'Ammeter' is related to
(1) Rain (2) Earthquake
(3) Electric current (4) Temperature

Answer (3)

49. In the way 'Indonesia' is related to 'Jakarta' in the same way 'Nepal' is related to
(1) Melbourne (2) Dhaka
(3) Kathmandu (4) Islamabad

Answer (3)

50. In the way India is related to Ashok Chakra, the same way Sri Lanka is related to
(1) Lily (2) Lion and Sword
(3) Moon and Star (4) Red Star

Answer (2)

51. In the way 'Hockey' is related to 'India' in the same way 'Spain' is related to
(1) Baseball (2) Bull fight
(3) Football (4) Ice hockey

Answer (3)

52. In the way 'Santhal' is related to 'India', in the same way 'Negro' is related to
(1) Japan (2) Germany
(3) Africa, America (4) Nepal

Answer (3)

53. In the way 'Red Fort' is related to 'Delhi', in the same way 'Pyramid' is related to
(1) New York (2) Egypt
(3) London (4) Berlin

Answer (2)

54. In the way poet is related to poem, in the same way ornaments are related to
(1) Goldsmith (2) Cobbler
(3) Carpenter (4) Dance director

Answer (1)

55. In the way 'area' is related to 'hectare', the same way 'radian' is related to
(1) Heat (2) Potential
(3) Resistance (4) Angle

Answer (4)

56. The relation that exists between ABC and ZXY, the same relation will exist – between CBA and
(1) ZXY (2) BCA
(3) XYZ (4) XZY

Answer (3)

57. In the way 28 is related to 82 in the same 36 is related to
(1) 56 (2) 32
(3) 63 (4) 56

Answer (3)

58. Statue of Liberty : USA :: Eiffel Tower : ?
(1) New Zealand (2) France
(3) Indonesia (4) Japan

Answer (2)

59. In the way Palaeontology is related to fossil in the same way pedology is related to
(1) Blood (2) Plants
(3) Soil (4) Tissue

Answer (3)

60. In the way white Pigeon is related to peace, the same way Swastik is related to
(1) Good luck
(2) Prosperity
(3) Civilization and culture
(4) Danger

Answer (2)

61. Regarding Ajit, Neelam tells to her friend that 'He is the only son of grandfather of my own brother', then how is Neelam related to Ajit ?
(1) Maternal aunt
(2) Sister
(3) Daughter
(4) Paternal aunt

Answer (3)

62. Navin, the son of a photographer who is a resident of Nagpur says to Urmila that Prabhat, who is staying in Delhi, is the eldest son of the father of Samir. If mother of Samir is the wife of Navin, then what is the relation Prabhat has with Navin ?

- (1) Son
- (2) Brother
- (3) Nephew (sister's son)
- (4) Nephew (brother's son)

Answer (1)

63. A man walks 12 km towards north. After this he walks 5 km towards west then how far is he now from his starting point ?

- (1) 22 km
- (2) 17 km
- (3) 5 km
- (4) 13 km

Answer (4)

64. Pointing to a lady Vijay says that "She is the only sister of my brother-in-law". How is the lady related to Vijay?

- (1) Daughter
- (2) Wife
- (3) Sister
- (4) Sister-in-law

Answer (2)

65. Pointing to a man in a picture a woman said, "The father of his brother is the only son of my mother". How is the man related to that woman?

- (1) Grandson
- (2) Nephew (Brother's son)
- (3) Son
- (4) Brother

Answer (2)

66. At the time of sunrise a boy was doing exercise by keeping his head down and legs up in the ground. If his left hand is towards east, then in which direction is his face?

- (1) North
- (2) South
- (3) West
- (4) None of these

Answer (1)

67. Facing towards north Rana walked 30 m. Then he turned left and walked 50 m. Again he turned left and walked 30 m. Now how far is Rana from his starting place

- | | |
|----------|----------|
| (1) 80 m | (2) 60 m |
| (3) 20 m | (4) 50 m |

Answer (4)

68. Bablu started to walk from a point A. After moving 12 m towards north he turned right and moved 10 m. Again he turned right and walked 12 m, then turning left walked 5 m. So far what distance has he travelled and in which direction is he?

- | | |
|----------------|-----------------|
| (1) 40 m, west | (2) 29 m, south |
| (3) 39 m, east | (4) 35 m, north |

Answer (3)

69. One day before sunset Vandana and Chandan were talking with each other face to face standing in a chawk. If the shadow of Vandana falls on the right side of her then in which direction was Chandan facing?

- | | |
|------------------|-----------|
| (1) South – east | (2) South |
| (3) North | (4) West |

Answer (2)

70. One morning after sunrise Atul and Rashmi was talking with each other standing face to face. If the shadow of Rashmi falls on left side of Atul then in which direction Atul was facing?

- | | |
|-----------|-----------|
| (1) North | (2) South |
| (3) East | (4) West |

Answer (1)

71. Harish is taller than Sameer but shorter than Ambuj. Sumit is shorter than Vishal. Ambuj is shorter than Sumit. If all of them are made standing increasing order (ascending order) of their heights, then who will stand at the end?

- (1) Harish
- (2) Ambuj
- (3) Sumit
- (4) Vishal

Answer (4)

Q.72-74 : According to the information given below answer the following three questions :

Four girls A , B, C and D and three boys E, F and G are sitting simultaneously in such a way that any two boys or any two girls will not sit together.

72. Who will sit after B ?

- (1) F
- (2) B
- (3) D
- (4) C

Answer (1)

73. Who will sit between C and D ?

- (1) A
- (2) D
- (3) G
- (4) C

Answer (3)

74. Who will sit exactly in the middle?

- | | |
|-------|-------|
| (1) F | (2) G |
| (3) C | (4) B |

Answer (1)

75. If the age of Manohar is greater than that of Ankit and the age of Saroj is not greater than Ankit then whose age among the three is greatest?

- (1) Saroj
- (2) Ankit
- (3) Manohar
- (4) Cannot be decided

Answer (3)

Q. 76-80 : Based on the following information answer the following questions :

- (A) In a school classes of different subjects – Commerce, Mathematics, English, Hindi, Urdu and Sanskrit are held in weekdays and Sunday is a holiday.
- (B) Commerce class is on Friday and English is taught on Monday. Urdu class is after Hindi. Sanskrit is taught on Thursday after Urdu.
- (C) Mathematics class is on one day before holiday.

76. Which subject is taught on Wednesday?

- (1) Hindi
- (2) Urdu
- (3) English
- (4) Sanskrit

Answer (2)

77. Which subject is taught before Hindi?

- (1) English
- (2) Urdu
- (3) Sanskrit
- (4) Mathematics

Answer (1)

78. The difference of how many days is there between Urdu and Commerce classes?

- | | |
|-------|-------|
| (1) 4 | (2) 3 |
| (3) 2 | (4) 1 |

Answer (4)

79. Mathematics class is just after which subject?

- | | |
|--------------|-----------------|
| (1) Hindi | (2) Mathematics |
| (3) Sanskrit | (4) Commerce |

Answer (4)

80. The classes start with which subject?

- | | |
|--------------|--------------|
| (1) English | (2) Hindi |
| (3) Commerce | (4) Sanskrit |

Answer (1)

81. On a table the books of Physics, Mathematics, English and Hindi are arranged in such a way that the book of Hindi is just above the book of English and book of Mathematics is just below that book of Physics. If the book of Physics is just kept below the book of English then which book is kept bottommost?

- (1) Physics
- (2) English
- (3) Mathematics
- (4) Hindi

Answer (3)

Q.82-84 : Akram, Vikas, Karan and Dinesh are seated on chairs around a round table. It is seen that

Answer (3)

83. Who is not seated at either right or left of Dinesh?

(1) Vikas (2) Akram
(3) Akram or Vikas (4) Karan

Answer (4)

84. Which statement is not correct?

 - (1) Karan is seated in front of Dinesh
 - (2) Akram is seated at the left of Karan
 - (3) Vikas is not seated in front of Akram
 - (4) Vikas is seated at the left of Dinesh

Answer (3)

Answer (4)

Q.86-90 : Six books are kept one after the other. History book is just above Civics book, which is just above the Mathematics book. Computer book is not at the topmost. There are four books in between English and Physics books. English book is at topmost and Computer book is just below the English book.

86. Which book is in between Civics and Computer books?

 - (1) Mathematics
 - (2) English
 - (3) History
 - (4) Physics

Answer (3)

Answer (4)

88. Which book is at bottommost?

- (1) Computer (2) History
(3) Civics (4) Physics

Answer (4)

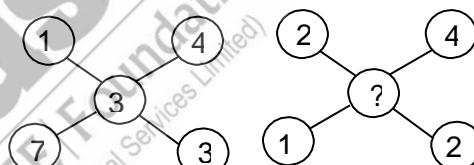
89. Which book is just below the History book?

(1) Civics (2) Mathematics
(3) Physics (4) Computer

Answer (1)

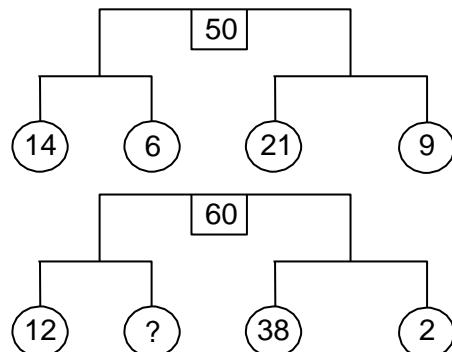
Answer (3)

91. Find the missing number in the diagram :



Answer (1)

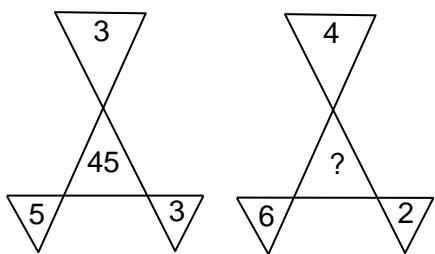
92. Find the missing number in the diagram:



- (1) 12
 - (2) 8
 - (3) 6
 - (4) 7

Answer (2)

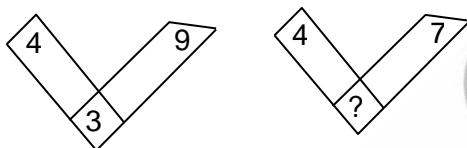
93. Find the missing number in the diagram:



- (1) 45
- (2) 48
- (3) 46
- (4) 47

Answer (2)

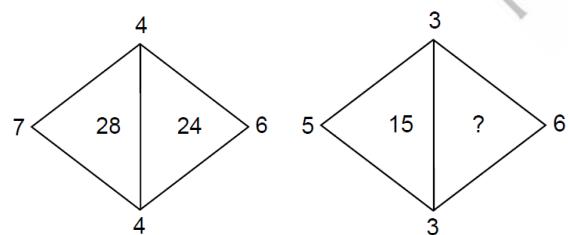
94. Find the missing number in the diagram :



- (1) 27
- (2) 29
- (3) 28
- (4) 30

Answer (3)

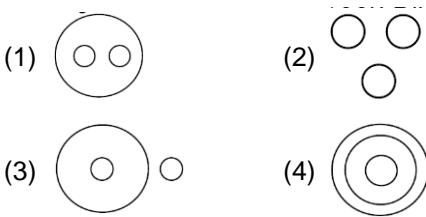
95. Find the missing number in the diagram:



- (1) 18
- (2) 38
- (3) 28
- (4) 08

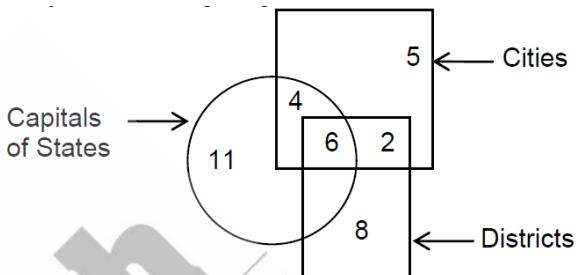
Answer (1)

96. Which diagram will represent the relationship between Bihar, Jharkhand and Patna?



Answer (3)

Q.97-100 : Study the following diagram and choose the correct alternatives given under each question :



97. How many such cities are there which are neither capitals of states nor districts?

- (1) 6
- (2) 5
- (3) 4
- (4) 7

Answer (2)

98. How many such cities are there which are also capitals of states?

- (1) 4
- (2) 8
- (3) 6
- (4) 11

Answer (1)

99. How many such districts are there which are cities as well as capitals of states?

- (1) 11
- (2) 8
- (3) 7
- (4) 6

Answer (4)

100. How many such cities are there which are also districts?

- (1) 8
- (2) 1
- (3) 3
- (4) 2

Answer (4)

PART-II : SCHOLASTIC APTITUDE TEST (SAT)

101. The object distance u , image distance v and focal length f for a spherical mirror are related as

- (1) $\frac{1}{v} - \frac{1}{u} = \frac{1}{f}$ (2) $\frac{1}{u} + \frac{1}{v} = \frac{1}{f}$
 (3) $v - u = f$ (4) $v + u = f$

Answer (1)

102. The image formed by a concave mirror is observed to be virtual, erect and larger than the object.

Where should be the position of the object?

- (1) Between the principal focus and the centre of curvature
 (2) At the centre of curvature
 (3) Beyond the centre of curvature
 (4) Between the pole of the mirror and its principal focus

Answer (4)

103. The change in focal length of an eye lens is caused by the action of the

- (1) Pupil (2) Retina
 (3) Ciliary muscles (4) Iris

Answer (3)

104. At the time of short circuit, the current in the circuit

- (1) reduces substantially
 (2) does not change
 (3) increases heavily
 (4) vary continuously

Answer (3)

105. Three resistances of 4Ω , 5Ω and 20Ω are connected in parallel. Their combined resistance is

- (1) 2Ω
 (2) 4Ω
 (3) 5Ω
 (4) 29Ω

Answer (1)

106. The electrical appliances in the houses are connected with each other in

- (1) parallel
 (2) series
 (3) a combination of series and parallel circuits
 (4) none of these

Answer (1)

107. Electrical power is given by

$$(1) P = \frac{V}{I} \quad (2) P = \frac{I}{V}$$

$$(3) P = \frac{I^2}{V} \quad (4) P = VI$$

Answer (4)

108. SI unit of magnetic field is

- (1) ampere (2) henry
 (3) tesla (4) ohm

Answer (3)

109. The direction of induced current in a circuit is given by

- (1) Fleming's left hand rule
 (2) Fleming's right hand rule
 (3) Right hand thumb rule
 (4) Ampere's swimming rule

Answer (2)

110. No current flows between two charged bodies when connected, if they have same

- (1) capacity (2) potential
 (3) charge (4) none of these

Answer (2)

111. The magnetic effect of electric current was discovered by

- (1) Faraday
 (2) Henry
 (3) Oersted
 (4) Maxwell

Answer (3)

112. The phenomenon of electromagnetic induction is
- the process of charging a body
 - the process of generating magnetic field due to a current passing through a coil
 - the process of producing induced current in a coil due to relative motion between a magnet and the coil.
 - the process of rotating a coil of an electric motor

Answer (3)

113. The human eye forms the image of an object at its
- | | |
|------------|------------|
| (1) cornea | (2) iris |
| (3) pupil | (4) retina |

Answer (4)

114. What happens when dilute hydrochloric acid is added to iron filings?
- Hydrogen gas and iron chloride are produced
 - Chlorine gas and iron hydroxide are produced
 - No reaction takes place
 - Iron salt and water are produced

Answer (1)

115. In the equation



- the substance reduced is
- | | |
|---------|--------------------|
| (1) CuO | (2) H ₂ |
| (3) Cu | (4) none of these |

Answer (1)

116. Select the organic acid from the following :

- | | |
|-----------------------|-----------------|
| (1) Hydrochloric acid | (2) Nitric acid |
| (3) Sulphuric acid | (4) Citric acid |

Answer (4)

117. A solution turns red litmus blue, its pH is likely to be
- | | |
|-------|--------|
| (1) 1 | (2) 4 |
| (3) 5 | (4) 10 |

Answer (4)

118. Tooth enamel contains

- | |
|-----------------------|
| (1) Calcium carbonate |
| (2) Calcium sulphate |
| (3) Calcium chloride |
| (4) Calcium phosphate |

Answer (4)

119. Which one of the following compounds is not an ionic compound?
- Sodium chloride
 - Calcium chloride
 - Carbon tetrachloride
 - Magnesium chloride

Answer (3)

120. Butanone is a four-carbon compound with the functional group
- | | |
|---------------------|--------------|
| (1) carboxylic acid | (2) aldehyde |
| (3) ketone | (4) alcohol |

Answer (3)

121. Ethane, with the molecular formula C₂H₆ has
- | | |
|----------------------|----------------------|
| (1) 6 covalent bonds | (2) 7 covalent bonds |
| (3) 8 covalent bonds | (4) 9 covalent bonds |

Answer (2)

122. Choose the metalloid from the following elements :
- | | |
|--------------|---------------|
| (1) Boron | (2) Sodium |
| (3) Chlorine | (4) Aluminium |

Answer (1)

123. Na, Mg, Al and S belong to 3rd period of the periodic table. Out of these acidic oxide is formed by
- | | |
|--------|--------|
| (1) Na | (2) Mg |
| (3) Al | (4) S |

Answer (4)

124. Which of the following compounds is used to repair fractured bones?
- | | |
|--|---|
| (1) Na ₂ CO ₃ | (2) CaOCl ₂ |
| (3) CaSO ₄ · $\frac{1}{2}$ H ₂ O | (4) CuSO ₄ · 5H ₂ O |

Answer (3)

125. How many groups are there in modern periodic table?
- | |
|--------|
| (1) 7 |
| (2) 13 |
| (3) 18 |
| (4) 20 |

Answer (3)

126. Pure gold is

- (1) 18 carat
- (2) 20 carat
- (3) 22 carat
- (4) 24 carat

Answer (4)

127. The breakdown of pyruvate to give carbon dioxide, water and energy, takes place in presence of oxygen in

- (1) Cytoplasm (2) mitochondria
- (3) chloroplast (4) nucleus

Answer (2)

128. The gap between two neurons is called

- (1) Dendrite (2) Synapse
- (3) axon (4) impulse

Answer (2)

129. Rings of cartilage are present in

- (1) oesophagus (2) bile duct
- (3) throat (4) small intestine

Answer (3)

130. The xylem in plants are responsible for

- (1) Transport of water
- (2) transport of food
- (3) transport of amino acids
- (4) transport of oxygen

Answer (1)

131. Which plant hormone causes bending of shoot towards light ?

- (1) Auxin (2) Gibberellin
- (3) Cytokinin (4) Abscisic acid

Answer (1)

132. Which of the following plant hormones causes wilting of leaves ?

- (1) Gibberellin
- (2) Cytokinin
- (3) Auxin
- (4) Abscisic acid

Answer (4)

133. Human growth hormone is produced in

- (1) thyroid (2) adrenal
- (3) pancreas (4) pituitary

Answer (4)

134. Insulin is produced by

- (1) Pituitary (2) Pancreas
- (3) Thyroid (4) Adrenal

Answer (3)

135. The example of unisexual flower is

- (1) Hibiscus (2) Mustard
- (3) Papaya (4) None of these

Answer (3)

136. The transfer of pollen grains from anther to stigma is termed as

- (1) Fertilization (2) pollination
- (3) ovulation (4) double fertilization

Answer (2)

137. Fat is digested by the enzyme

- (1) amylase (2) pepsin
- (3) trypsin (4) lipase

Answer (?)

138. Genetic material is carried out by long chain of molecules made up of

- (1) enzymes (2) DNA
- (3) amino acids (4) proteins

Answer (2)

139. Who proposed the law of inheritance ?

- (1) Darwin (2) Mendel
- (3) Lamarck (4) Morgan

Answer (2)

140. Changes in the non – reproductive tissues caused by environmental factors

- (1) Are inheritable
- (2) are not inheritable
- (3) both (1) and (2)
- (4) none of these

Answer (2)

Answer (2)

180. "Temples of Modern India" was the name given to dams by

- (1) Pt. Jawaharlal Nehru
- (2) Mahatma Gandhi
- (3) Rabindranath Tagore
- (4) Subhash Chandra Bose

Answer (1)

181. Which one of the following describes a system of agriculture where a single crop is grown on a large area?

- (1) Shifting Agriculture
- (2) Horticulture
- (3) Plantation Agriculture
- (4) Intensive Agriculture

Answer (3)

182. Limestone is found in which rocks?

(1) Igneous (2) Sedimentary
(3) Metamorphic (4) None of these

Answer (2)

Answer (4)

Answer (4)

185. Which mode of transportation reduces transhipment losses and delays?

- (1) Railways
- (2) Roadways
- (3) Pipelines
- (4) Waterways

Answer (3)

186. Which movement has successfully resisted deforestation in Himalayas?

- (1) Beej Bachao Andolan
- (2) Chipko Movement
- (3) Navdanya
- (4) Joint Forest Management

Answer (2)

187. The habitat of Lions in India is

- (1) Gir forest
- (2) Simlipal
- (3) Ranthambhor
- (4) None of these

Answer (1)

188. The first Earth Summit was held at

- (1) Montreal
- (2) Rio-de-Janeiro
- (3) New York
- (4) London

Answer (2)

189. Which one of the following is a kharif crop?

- (1) Paddy
- (2) Wheat
- (3) Watermelon
- (4) Gram

Answer (1)

Answer (1)

Answer (2)

192. A person who does not discriminate others on the basis of religious beliefs, is

- (1) Feminist
- (2) Communist
- (3) Casteist
- (4) Secularist

Answer (4)

193. The best form of government for promoting dignity and freedom of the individual is

- (1) Democracy (2) Dictatorship
- (3) Army Rule (4) None of these

Answer (1)

194. Number of Lok Sabha Members from Jharkhand is

- (1) 12 (2) 13
- (3) 14 (4) 15

Answer (3)

195. The Chairperson of a Municipal Corporation is

- (1) Deputy Commissioner
- (2) Sarpanch
- (3) Mayor
- (4) M.L.A. of the area

Answer (3)

196. Which is considered to be one of the most important attributes for comparing the development of countries?

- (1) Health and Education
- (2) Infrastructure
- (3) Per capita income
- (4) Growth of technology

Answer (3)

197. Which sector of the Indian Economy has grown the most over thirty years?

- (1) Primary sector (2) Secondary sector
- (3) Tertiary sector (4) None of these

Answer (3)

198. Reserve Bank of India grants loans to

- (1) General public
- (2) Private companies
- (3) Commercial banks
- (4) All of these

Answer (3)

199. Human Development Report is published by

- (1) UNDP
- (2) World Bank
- (3) Government of the country
- (4) Central bank of the country

Answer (1)

200. In which of the following years, was Consumer Protection Act passed?

- (1) 1989 (2) 1980
- (3) 1985 (4) 1986

Answer (4)

