



# Aakash

## Medical | IIT-JEE | Foundations

(Divisions of Aakash Educational Services Pvt. Ltd.)

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Time : 3 Hours

# Answers & Solutions

Max. Marks : 200

*for*

## NTSE (Stage-I) 2017-18

### INSTRUCTIONS TO CANDIDATES

- Use blue/black ball point pen only. There is no negative marking.
- This test booklet contains 200 questions of one mark each. All the questions are compulsory.
- Part-I : MAT : 1 - 50 questions  
Part-II : Language : 51 - 100 questions  
Part-III : SAT : 101 - 200 questions
- Answer each question by darkening the one correct alternative among the four choices on the OMR Sheet with blue/black ball point pen.

Example :

Q. No.	Alternatives
Correct way :	1    ①   ②   ●   ④
Q. No.	Alternatives
Wrong way :	1    ⊗   ⊕   ③   ④

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

- Disparity in mentioning (SC, ST & PH) in application form and OMR Sheet can make your candidature invalid.
- 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.
- Separate Sheet has been provided for rough work in this test booklet.
- Please handover the OMR Sheet to the invigilator before leaving the Examination Hall.  
\*Take all your question booklets with you.
- Darken completely the ovals of your answers on OMR Sheet in the time limit allotted for that particular paper.
- Your OMR Sheet will be evaluated through electronic scanning process. Incomplete and incorrect entries may render your OMR Sheet invalid.
- Use of electronic gadgets, calculator, mobile etc., is strictly prohibited.

**PART-I : MENTAL ABILITY TEST (MAT)**

**Direction : (Question number 1 to 3)**

Choose the next term of the series :

1. 15, 17, 20, 25, 33, 46, 67, .....
- (1) 91 (2) 101  
(3) 111 (4) 81

**Answer (2)**

**Sol.** Difference between terms 2, 3, 5, 8, 13, 21, ....  
So next term of difference is sum of two previous differences  
next one is 34.  
So our next term = 67 + 34 = **101**

2. 4, 5, 16, 24, 64, 124, 256, .....
- (1) 624  
(2) 3124  
(3) 1024  
(4) 626

**Answer (1)**

**Sol.**   
Two patterns :  $4^n$  and  $5^n - 1$   
 $5^4 - 1 = 624$

3. 0, 2, 3, 5, 8, 10, 15, 17, 24, 26, .....
- (1) 34 (2) 35  
(3) 27 (4) 30

**Answer (2)**

**Sol.**   
Two pattern  
 $26 + 9 = 35$

4. 1, 2, 5, 14, 41, 122, ....., 1094
- (1) 355  
(2) 265  
(3) 465  
(4) 365

**Answer (4)**

**Sol.**   
difference  $\rightarrow 3^n$   
 $122 + 243 = 365$

5. AK, LB, CM, ND, EO, ....., GQ, RH
- (1) FP (2) QF  
(3) PF (4) FQ

**Answer (3)**

**Sol.**   
consecutive terms placed  $\rightarrow$  PF

6. During a sunshine day at 6 pm, two friends A and B were talking to each other face to face. If B's shadow was exactly to A's left side, then the direction of A facing is :
- (1) North (2) South  
(3) East (4) West

**Answer (2)**

**Sol.**

A  $\rightarrow$  Faces - South

7. In an examination a student scores 2 marks for every correct answer and loses 1 mark for every wrong answer. If he attempts all 90 questions and secures 42 marks, then the number of questions he attempted correctly is :
- (1) 74  
(2) 64  
(3) 54  
(4) 44

**Answer (4)**

**Sol.** Let x be the correct questions

$$\text{So } 2x + (90-x)(-1) = 42$$

$$x = 44$$

8. The number of benches in a class, if 4 students sit on each bench in the class room then 3 benches are left and if 3 students sit on each bench 3 students left without bench, is :
- (1) 16 (2) 15  
(3) 44 (4) 48

**Answer (2)**

**Sol.** Let benches be x

$$\text{Total student be } N$$

$$N = 4(x-3)$$

$$N = 3x + 3$$

$$4x - 12 = 3x + 3 \quad x = 15$$

9. If  $\times$  means  $+$  ;  $\div$  means  $-$  ;  $-$  means  $\times$  and  $+$  means  $\div$  then,  $12-8+16\div 4\times 7$  is :

- (1) 9 (2) 32  
(3) 12 (4) 18

**Answer (1)**

**Sol.**  $12\times 8\div 16-4+7$

$$12\times\frac{8}{16}-4+7$$

$$6-4+7=9$$

10. If  $7 * 8 \square 3 = 2$  and  $18 \square 5 * 4 = 19$  then

$4 * 5 \square 8 * 7 \square 1$  is :

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

**Answer (3)**

**Sol.**  $7 * 8 \square 3 = 2$

$$\text{So } * = -1$$

$$\square = +$$

$$\text{So } 4 * 5 \square 8 * 7 \square 1$$

$$\text{So } 4 - 5 + 8 - 7 + 1$$

$$13 - 12 = 1$$

11. Five boys A, B, C, D and E took part in a race. D finished before E but behind C. B finished before A but behind E. The student who came last is :

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

**Answer (4)**

**Sol.** Order  $C > D > E > B > A$

12. In the alphabet series A to Z, the letter seventh to the left of 17<sup>th</sup> letter from the right end is:

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

**Answer (4)**

13. The number of 8's that are preceded by 1 and also followed by 7 in 7816018754818743187818 is :

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

**Answer (1)**

**Sol.** Check  $\rightarrow$  187 pattern

3  $\rightarrow$  patterns

14. A and B are brothers ; C and D are sisters. A's son is D's brother. The relationship of B to C is :

- (1) Grand Father (2) Uncle  
(3) Brother (4) Father

**Answer (2)**

15. In a row of students, if A is 12th from the either end of the row, then the number of students in the row is:

- (1) can't be determined (2) 24  
(3) 25 (4) 23

**Answer (4)**

**Sol.**

$$\begin{array}{|c} 11 \\ \hline \rightarrow 12 \\ | 11 \end{array}$$

$$\text{Total} = 11 + 11 + 1 = 23$$

16. In a certain code DISTRIBUTION is written as STTIBUDIONRI then COMBINATIONS is written as :

- (1) MBIOATCONSIN (2) MBOIATOCNSIN  
(3) MBIOTACONSIN (4) MBIOATCOSNIN

**Answer (1)**

**Sol.**  $\begin{array}{cccccc} \text{DI} & \text{ST} & \text{RI} & \text{BU} & \text{TI} & \text{ON} \\ 4 & 1 & 6 & 3 & 2 & 5 \end{array} \rightarrow \text{STTIBUDIONRI}$

Order 4, 1, 6, 3, 2, 5

17. If R is denoted by N ; D by T ;

I by U ; O by I ;

E by R ; T by O ;

U by D ; N by C and

C by E, then the word 'CONDITION' be written as :

- (1) ECIUTOUIC (2) EICTUOUIC  
(3) EICUTOIUC (4) ECIUTOUCI

**Answer (2)**

**Sol.** Direct coding

18. If MACHINE is coded as 53 ; SHE is coded as 32 and ZINC is coded as 52 then CAMEL is coded as:

- (1) 32 (2) 33  
(3) 34 (4) 35

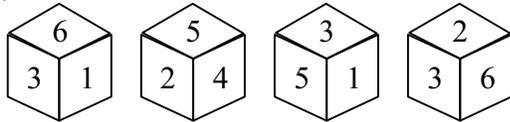
**Answer (3)**

**Sol.** code = sum of  $\alpha$ -batical position

$$\text{CAMEL} = 3 + 1 + 13 + 5 + 12$$

$$= 34$$

19. A die is thrown four times and its different positions are recorded as follows:

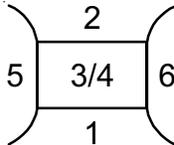


The number opposite to 4 is :

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

**Answer (4)**

**Sol.** Top view



20. The mirror image of 'BANKER' is :

- (1) BAKNEP (2) BANKEP  
(3) BANKEP (4) BANKEP

**Answer (1)**

21. The water image of 'JACKLE' is :

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

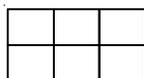
**Answer (4)**

22. The water image of is :

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

**Answer (3)**

23. The number of rectangles formed in the given diagram is :



- (1) 18 (2) 6  
(3) 12 (4) 16

**Answer (1)**

**Sol.** one at a time = 6  
two at a time = 7  
three at a time = 2  
four at a time = 2  
six at a time = 1

18

24. The reflex angle between the hands of the clock at 9:30 is:

- (1) 120° (2) 255°  
(3) 270° (4) 240°

**Answer (2)**

**Sol.** 9:30

$$\theta = \left| 30H - \frac{11}{2}MH \right|$$

$$= \left| 30 \cdot 9 - \frac{11}{2} \cdot 30 \right|$$

$$= |270 - 165|$$

$$\theta = 105^\circ$$

$$\text{So reflex} = 360 - 105$$

$$= 255$$

25. **Direction :** Arrange the words in a meaningful sequence and then choose the most appropriate sequence.

Words:

- (A) Evaluation (B) Text Book  
(C) Syllabus (D) Learning  
(E) Teaching (F) Testing

- (1) (C), (B), (E), (D), (F), (A)  
(2) (E), (C), (B), (D), (F), (A)  
(3) (E), (C), (D), (B), (F), (A)  
(4) (C), (E), (B), (A), (F), (D)

**Answer (1)**

26. **Direction :** Two statements (I) and (II) are followed by two conclusions numbered (a) and (b). Choose the option which logically follows:

**Statements :**

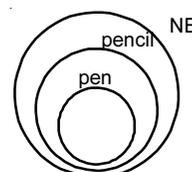
- (I) All pencils are pens  
(II) All pens are Note Books

**Conclusions :**

- (a) All note books are pencils  
(b) Some note books are pencils  
(1) only (a) follows  
(2) only (b) follows  
(3) both (a) and (b) follow  
(4) neither (a) nor (b) follow

**Answer (2)**

**Sol.**



**Direction: (Question number 27 and 28)**

Four words / numbers have been given. Out of which three are alike in some manner and the fourth one is different. Choose the different one.

27. (1) album (2) asylum  
(3) castle (4) prison

**Answer (1)**

28. (1) 23 (2) 122  
(3) 43 (4) 78

**Answer (3)**

**Sol.**  $23 = 2 \times 11 + 1$   
 $122 = 11 \times 11 + 1$   
 $43 = 4 \times 11 - 1$   
 $78 = 7 \times 11 + 1$

29. The missing letters which are given in a proper sequence in - aab - ba - ab - b is :

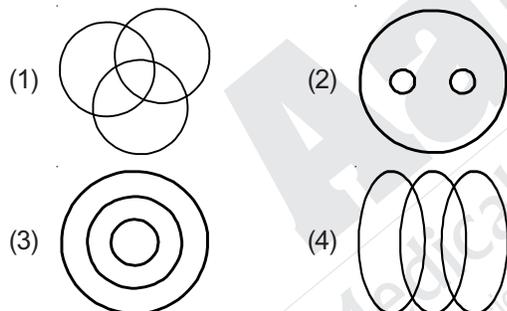
- (1) bbab (2) abab  
(3) aabb (4) baba

**Answer (2)**

**Sol.** aaa bbb aaa bbb

30. Choose the Venn-diagram which best illustrates the given group:

boys, sports, persons, singers



**Answer**

**Sol. Wrong Question**

**Direction: (Question number 31 to 34)**

Read the following information and answer the questions 31 to 34:

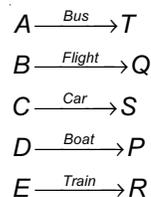
- (i) Five friends A, B, C, D and E travelled to five different cities P, Q, R, S and T by different modes of travel namely Bus, Train, Flight, Car and Boat from I.
- (ii) The person who travelled to R did not travel by boat.
- (iii) C went to S by Car and B went to Q by flight.
- (iv) D travelled by boat whereas E travelled by Train.
- (v) 1 is not connected by Bus to R and P.

31. Which of the following combination is true for D?

- (1) P - boat (2) R - Car  
(3) T - flight (4) P - train

**Answer (1)**

**Sol.**



32. Who among the following travelled to R ?

- (1) A (2) B  
(3) D (4) E

**Answer (4)**

33. The person travelling to R went by :

- (1) Car (2) Boat  
(3) Train (4) Bus

**Answer (3)**

34. Which of the following combination of place and mode is not correct?

- (1) T - Bus (2) S - Car  
(3) R - Train (4) Q - Boat

**Answer (4)**

**Direction: (Question number 35 to 37)**

First two words/numbers/sequence before the symbol : : are related to each other in some way. Choose the word / number / sequence given in the alternatives which bears the same relationship to the third.

35. Man : Biography : : Nation : ?

- (1) History  
(2) Economics  
(3) Geography  
(4) Civics

**Answer (1)**

36. 8 : 65 : : 13 : ?

- (1) 168 (2) 27  
(3) 170 (4) 169

**Answer (3)**

**Sol.** logic  $\rightarrow 8 : 65 \rightarrow 8^2 + 1 = 65$

$13 \rightarrow 13^2 + 1 = 170$

37.  $HD : \frac{16}{64} :: PL : ?$

(1)  $\frac{256}{144}$

(2)  $\frac{16}{12}$

(3)  $\frac{12}{16}$

(4)  $\frac{144}{256}$

Answer (4)

Sol.  $HD : \frac{16}{64} :: PL \rightarrow \frac{L^2}{P^2} = \frac{12^2}{16^2} = \frac{144}{256}$   
D=4 H=8

38. Choose a pair in which the words bear the same relationship as in the given pair :  
Bird : Cage :: ?

- (1) antique : museum
- (2) thief : prison
- (3) crime : punishment
- (4) animal : forest

Answer (2)

Direction: (Question number 39 and 40)

The characters / numbers in the given matrices follow a certain trend, row-wise or column-wise. Based on the trend, choose the missing number / character.

39.

7	6	7
12	8	?
5	10	11
218	200	251

- (1) 8
- (2) 9
- (3) 7
- (4) 12

Answer (2)

Sol. logic  $\rightarrow$  vertical  $\rightarrow$  square + sum

$7^2 + 12^2 + 5^2 = 218$

So  $7^2 + x^2 + 11^2 = 251$

$x^2 = 81$

$x = 9$

40.

H	I	?
J	K	V
L	M	Y

- (1) J
- (2) K
- (3) T
- (4) S

Answer (4)

Sol.

H	I	S
J	K	V
L	M	Y

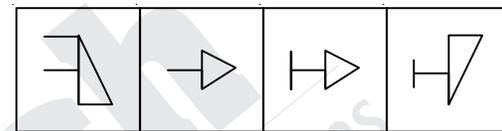
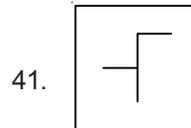
logic H, J, L  $\rightarrow$  + 2

I, K, M  $\rightarrow$  + 2

?, V, Y  $\rightarrow$  logic  $\rightarrow$  + 3

Direction: (Question number 41)

A figure is given, followed by four alternative figures in such a way that the given figure is embedded in one of them. Choose the embedded figure.

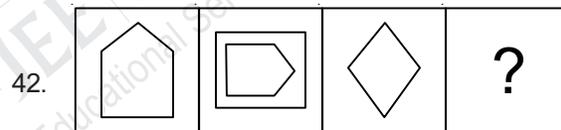


- (1)
- (2)
- (3)
- (4)

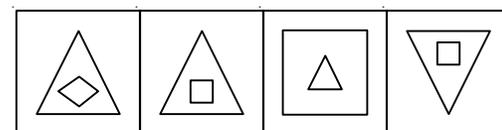
Answer (4)

Direction: (Question number 42 and 43)

Figures A and B are related in some manner. In the same manner figures C and D are related. Choose the figure D in the given four alternatives.

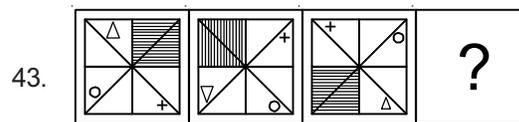


- (A)
- (B)
- (C)
- (D)

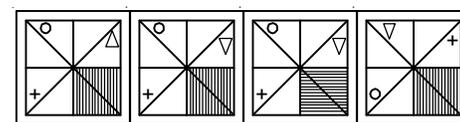


- (1)
- (2)
- (3)
- (4)

Answer (1)



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



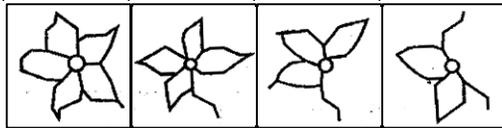
- (1)
- (2)
- (3)
- (4)

Answer (2)

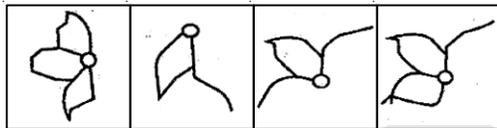
**Direction: (Question number 44 and 47)**

Find the figure from the answer figures (1), (2), (3), (4) which would continue the series of the four figures (A), (B), (C) and (D).

44.



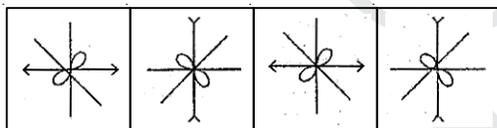
(A) (B) (C) (D)



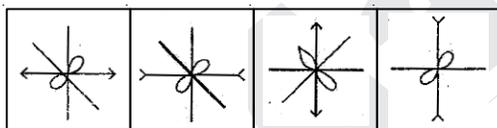
(1) (2) (3) (4)

**Answer (3)**

45.



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

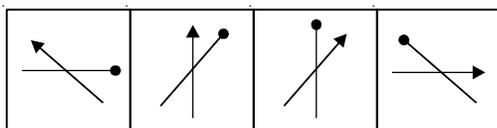


(1) (2) (3) (4)

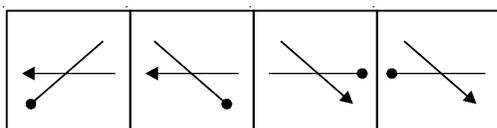
**Answer (1)**

**Sol.** 90° in anti-clock direction

46.



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



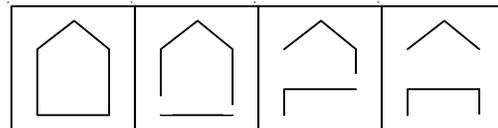
(1) (2) (3) (4)

**Answer (4)**

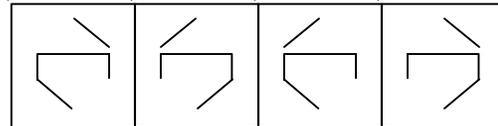
**Sol.** arrow in clockwise (45°)

dots in anticlockwise (45°)

47.



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



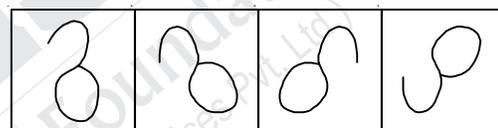
(1) (2) (3) (4)

**Answer (1)**

**Direction: (Question number 48 and 50)**

Choose the figure which differs from the rest of the figures.

48.



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

**Answer (4)**

49.



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

**Answer (3)**

Logic → curvey

50.



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

**Answer (3)**

**Sol.** B is after A

S is after H

O is after C

But N is before R.

## PART-II : LANGUAGE TEST

Read the passage carefully and answer the questions given below:

At 2 pm on 5 December 1945, five US bombers took off from Fort Lauderdale in the USA for a training flight in perfect weather. Shortly afterwards, the pilots radioed that their flight instruments were all malfunctioning. Two hours after take-off, all contact with the planes was lost. A reconnaissance plane was immediately dispatched to search for the missing planes. Within 20 minutes, radio contact with it had also been lost. No trace of any of the planes was ever found. In all, six planes and 27 men had vanished into the air. The disappearance of the six planes was far from being the first mysterious incident in the area : for years, navigational problems and strange magnetic forces had been reported. The disappearance was not even the greatest disaster within the triangle. The Cyclops, a 19,000-ton US ship was sailing from Barbados to Norfolk, Virginia. In March 1918, when it vanished with its crew of 309 from the surface of the ocean without making a distress call and without the slightest wreckage ever being found. The losses of boats and planes in that area defy explanation. The disasters are the origin of a new phrase in the English language - the Bermuda Triangle and this phrase has entered legend. The Bermuda Triangle has been called the Devils' Triangle, the Triangle of Death, the Graveyard of the Atlantic. It has swallowed up 140 ships and planes and more than 1,000 people. Today many airmen and sailors are still afraid of that area of the Atlantic Ocean.

51. Why were the five bombers sent by the USA Air force?
- (1) for refuelling a war plane in the mid air
  - (2) for dropping bombs on Japan
  - (3) for training purposes
  - (4) for reinforcing the forces in Afghanistan

**Answer (3)**

52. What was the first major disaster in the Bermuda Triangle?
- (1) The disappearance of 6 US Planes
  - (2) The disappearance of 37 men along with the planes.
  - (3) The disappearance of Cyclops
  - (4) The sinking of Titanic

**Answer (3)**

53. Why do navigators and pilots avoid Bermuda triangle even today?
- (1) They are superstitious
  - (2) The mysterious disappearance of Planes and ships is solved
  - (3) The mysterious disappearance of Planes remains an enigma even today
  - (4) It is a haunted area trusted only by Sorcerers and Shamans

**Answer (3)**

54. Why did Cyclops not make any distress calls or send SOS signal for possible rescue operation?
- (1) They believed that they could overcome the problem themselves
  - (2) All had a divine call from heaven
  - (3) The captain of the Ship wanted to die due to some personal problems
  - (4) The downward pull was so swift and abrupt that they had no time

**Answer (4)**

55. What is a legend ?
- (1) Foible
  - (2) Parable
  - (3) Traditional but unauthenticated story
  - (4) Feeble

**Answer (3)**

Read the following Poem Carefully and answer the Questions given below:

Stop all the clocks, cut off the telephone,  
Prevent the dog from barking with a juicy bone,  
Silence the pianos and with muffled drum  
Bring out the coffin, let the mourners come.

Let aeroplanes circle moaning overhead  
Scribbling on the sky the message He Is Dead,  
Put crepe bows round the white necks of the public doves,  
Let the traffic policemen wear black cotton gloves.

He was my North, my South, my East and West,  
My noon, my midnight, my talk, my song;  
I thought that love would last forever: I was wrong.

The stars are not wanted now: put out every one;  
Pack up the moon and dismantle the sun;  
Pour away the ocean and sweep up the wood.  
For nothing now can ever come to any good.

—W. H. Auden

56. Why was the narrator sad ?
- (1) Her wealth was lost
  - (2) Her husband was sick
  - (3) Her husband has gone to the war
  - (4) Her husband was killed in the war

**Answer (4)**

57. What was the speaker's notion ?
- (1) Love is temporal
  - (2) Love would end on day
  - (3) Love is finite
  - (4) Love is eternal

**Answer (4)**

58. How does the speaker react to the death of the loved one ?
- (1) She is stoical
  - (2) She feels devastated
  - (3) She feels reassured
  - (4) She is optimistic

**Answer (2)**

59. When does one appreciate and enjoy the beauty of celestial bodies?
- (1) When one is frustrated
  - (2) When one is dejected
  - (3) When one is happy
  - (4) When one is disappointed

**Answer (3)**

60. What does the speaker convey in the last stanza ?
- (1) She wants everyone to have a pleasant life
  - (2) She wants all life sustaining nature destroyed
  - (3) She believes something good will come through the recuperative powers of nature
  - (4) She wants to redeem the world from sorrow

**Answer (2)**

**Fill in the blanks with the most appropriate option given below :**

Sunil (61) in the waiting hall of his doctor's clinic. Usually he (62) good health. But yesterday he got (63) in rain, while coming home from school. It appears that he suffers from cold, cough and a (64) throat. Many people think that cold is a (65) disease.

61. (1) sit (2) sitting  
(3) was sitting (4) sat

**Answer (3)**

62. (1) keeps (2) kept  
(3) keeping (4) will keep

**Answer (1)**

63. (1) drenching (2) drenched  
(3) was drenched (4) will be drenched

**Answer (2)**

64. (1) soar (2) sore  
(3) shore (4) sour

**Answer (2)**

65. (1) minor (2) small  
(3) little (4) minute

**Answer (1)**

**Arrange the parts and complete the sentences. The beginning of the sentences is already given. Choose the order from the options given :**

66. Before the advent of printing press,
- P. only through manuscripts
  - Q. knowledge was transmitted
  - R. carried over to the next generation
  - S. and mistakes were helplessly
- (1) QPSR (2) PQSR  
(3) RSQP (4) QSRP

**Answer (1)**

67. Researchers say that :
- P. those who were concerned about
  - Q. were happier than those
  - R. the well-being of their fellow human beings
  - S. who focused on their own advancement
- (1) PSQR (2) QSPR  
(3) RSPQ (4) PRQS

**Answer (4)**

**Fill in the blanks with correct tense forms of verb, choosing form the options given :**

The boys (68) the school for the Minister's visit. The Minister (69) here tomorrow. He (70) the Independence Day celebrations in the morning.

68. (1) decorate (2) decorated  
(3) will decorate (4) are decorating

**Answer (2 or 4)**

69. (1) arrive (2) will arrive  
(3) arrived (4) had arrived

**Answer (2)**

70. (1) take (2) took over  
(3) will preside over (4) taking part

**Answer (3)**

**Find out the meaning of the underlined idiom from the options given below :**

71. We have just a couple of months to get our ducks in a row before the launching of the project.  
(1) be well-organized (2) wrap-up and conclude  
(3) be tensed up (4) arrange and allot seats

**Answer (1)**

72. Indian soldiers fought tooth and nail to eliminate the terrorists in a long-drawn gun battle.  
(1) tried fiercely (2) screamed hysterically  
(3) paid heavily (4) cried bitterly

**Answer (1)**

73. My boss changed the horses midstream.  
(1) retained the plan (2) altered the plan  
(3) polished the boots (4) dropped the plan

**Answer (2)**

74. The captain is passing the buck to the vice-captain for the defeat in the final match.  
(1) delegating the duty (2) issuing the cheque  
(3) shifting the blame (4) giving the credit

**Answer (3)**

75. As the funds were not granted on time, the project leader ran out of steam.  
(1) tendered resignation (2) exploded in anger  
(3) became worried (4) lost enthusiasm

**Answer (4)**

**Fill in the blanks with the most appropriate word choosing from the options given below:**

Fizzy drinks (76) dangerous for health. It is now (77) that these drinks (78) pesticides more than the (79) level. Now, next time when you (80) fizzy drinks think that you are buying poison.

76. (1) am (2) is  
(3) are (4) were

**Answer (3)**

77. (1) is proving (2) proves  
(3) prove (4) proved

**Answer (4)**

78. (1) containing (2) contains  
(3) contain (4) contained

**Answer (3)**

79. (1) requiring (2) requires  
(3) required (4) require

**Answer (3)**

80. (1) is buying (2) are buying  
(3) buy (4) bought

**Answer (3)**

**Substitute phrasal verbs :**

81. India and Pakistan agree to abide by the agreement.  
(1) honour (2) alternate  
(3) cancel (4) resume

**Answer (1)**

82. The convict begged for mercy.  
(1) expired (2) called  
(3) entreated (4) shouted

**Answer (3)**

83. The enzyme acts upon certain proteins.  
(1) influences (2) distracts  
(3) helps (4) destroys

**Answer (1)**

84. Mohan called on me the day before yesterday.  
(1) greeted (2) visited  
(3) summoned (4) welcomed

**Answer (3)**

85. Soon, he got over his timidity.  
(1) overcame (2) exiled  
(3) reduced (4) proclaimed

**Answer (1)**

86. **Identify the appropriate question tag :**

The girl dances well.

- (1) Isn't she ? (2) Didn't she ?  
(3) Does she ? (4) Doesn't she ?

**Answer (4)**

87. **Find the correct passive form :**

Lock the door

- (1) The door was locked  
(2) The door will be locked  
(3) The door has been locked  
(4) Let the door be locked

**Answer (4)**

**88. Find the correct reported form :**

The teacher said, "The Earth moves round the Sun".

- (1) The teacher said that the Earth moved round the Sun.
- (2) The teacher told that the Earth moves round the Sun.
- (3) The teacher told that the Earth had moved round the Sun.
- (4) The teacher told that the Earth would move round the Sun.

**Answer (2)****89. Identify the complex sentence :**

- (1) He hinted and he wanted money.
- (2) Being hinted he wanted money.
- (3) Without hinting, he wanted money.
- (4) He hinted that he wanted money.

**Answer (4)****90. Identify the correct sentence.**

- (1) The old man divided his property in between his sons.
- (2) The old man divided his property to his sons.
- (3) The old man divided his property among his sons.
- (4) The old man divided his property for his son.

**Answer (3)****Identify the most appropriate SYNONYM of the underlined word from the options given below :**

91. The sponsors plan to host the match where they find it lucrative.
- |                 |                |
|-----------------|----------------|
| (1) profitable  | (2) desirable  |
| (3) comfortable | (4) acceptable |

**Answer (1)**

92. The company conceived a new strategy to increase their profit margin.

- |               |                |
|---------------|----------------|
| (1) adopted   | (2) thought of |
| (3) developed | (4) rejected   |

**Answer (1)****Identify the most appropriate ANTONYM for the underlined word from the options given below :**

93. I resisted my temptation to eat ice-cream, as I had an audio recording the next day.
- |                |                |
|----------------|----------------|
| (1) stimulated | (2) yielded    |
| (3) extended   | (4) controlled |

**Answer (2)**

94. An ideal home-maker is expected to be very economical.

- |                 |                 |
|-----------------|-----------------|
| (1) extravagant | (2) industrious |
| (3) hospitable  | (4) lethargic   |

**Answer (1)****Spot the errors :**

95. (1) (Not only the judges acquitted)  
 (2) (him for all the charges)  
 (3) (levelled against him but also,)  
 (4) (commended all his actions)

**Answer (1, 2, 4)**

96. (1) (Due to certain inevitable circumstances)  
 (2) (the scheduled programme had to be)  
 (3) (postponed indefinite,)  
 (4) (but the members could not be informed).

**Answer (3)**

97. (1) (We admired the way)  
 (2) (he had completed all his work)  
 (3) (and appreciating the method)  
 (4) (adopted by him)

**Answer (3)**

98. (1) (By April next year)  
 (2) (I will had been)  
 (3) (working in this office)  
 (4) (for twenty years)

**Answer (2)****Choose the best meaning for the given proverb from the options given below :**

99. A drowning man will clutch at a straw.
- (1) Nothing can save a man sinking in deep debt.
  - (2) A man in great trouble will try to trouble others.
  - (3) A person in a desperate situation will do anything to overcome it.
  - (4) Floating objects could do nothing to save one submerged in water.

**Answer (3)**

100. Beware of Greeks bearing gifts.
- (1) Be careful with your friends.
  - (2) Don't trust your enemies.
  - (3) Keep a distance with strangers.
  - (4) Don't cultivate a rapport with relatives.

**Answer (2)**

**PART-III : SCHOLASTIC APTITUDE TEST (SAT)**

101. If  $128 - 8^x = 2^6$ , then the value of  $x$  is :

- (1) 2 (2) -2  
(3)  $\frac{1}{2}$  (4) 4

**Answer (1)**

**Sol.**  $128 - 64 = 8^x$

$$64 = 8^x$$

$$2 = x$$

102. If  $a, b, c$  are all non-zero and  $a + b + c = 0$  then,

the value of  $\frac{a^2}{bc} + \frac{b^2}{ca} + \frac{c^2}{ab}$  is :

- (1) 3 (2)  $abc$   
(3)  $\frac{a^3 + b^3 + c^3}{abc}$  (4)  $a + b + c$

**Answer (1 or 3)**

**Sol.**  $a + b + c = 0$

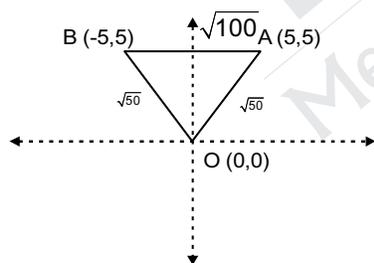
$$\frac{a^2}{bc} + \frac{b^2}{ac} + \frac{c^2}{ab} = \frac{a^3 + b^3 + c^3}{abc} = \frac{3abc}{abc} = 3$$

103. By joining the points  $(5, 5), (-5, 5)$  to the origin in the Cartesian plane, then the type of triangle formed is :

- (1) Right angled triangle (2) Acute triangle  
(3) Isosceles triangle (4) Equilateral triangle

**Answer (1 or 3)**

**Sol.**



104. If the graph of the equation  $4x + 3y = 12$  cuts the co-ordinate axes at  $A$  and  $B$  then the length of  $AB$  is :

- (1) 4 units (2) 3 units  
(3) 5 units (4) 2 units

**Answer (3)**

**Sol.**  $4(0) + 3y = 12$  |  $4x + 3(0) = 12$

$$y = 4 \quad | \quad x = 3$$

$$A(0,4) \quad | \quad B(3,0)$$

$$AB = 5$$

105. In  $\triangle ABC$ , if  $2\angle A = 3\angle B = 6\angle C$  then the measures of  $\angle A, \angle B$  and  $\angle C$  are respectively :

- (1)  $30^\circ, 60^\circ, 90^\circ$   
(2)  $90^\circ, 60^\circ, 30^\circ$   
(3)  $30^\circ, 90^\circ, 60^\circ$   
(4)  $45^\circ, 45^\circ, 90^\circ$

**Answer (2)**

**Sol.**  $2A = 3B = 6C = k$

$$A = \frac{k}{2} \quad B = \frac{k}{3} \quad C = \frac{k}{6}$$

$$A + B + C = 180$$

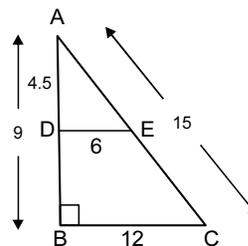
$$\frac{K}{2} + \frac{K}{3} + \frac{K}{6} = 180 \quad | \quad A=90^\circ ; B=60^\circ ; C=30^\circ$$

106. In a right triangle  $ABC$ ,  $\angle B = 90^\circ$ ,  $AB = 9\text{cm}$ ,  $AC = 15\text{cm}$  and  $D, E$  are the midpoints of  $AB$  and  $AC$  respectively, then the area of  $\triangle ADE$  is :

- (1)  $12\text{cm}^2$  (2)  $13.5\text{cm}^2$   
(3)  $27\text{cm}^2$  (4)  $24\text{cm}^2$

**Answer (2)**

**Sol.**  $DE \parallel BC, DE = \frac{BC}{2}$



Ar ( $\triangle ADE$ )

$$= \frac{1}{2} DE \cdot AD$$

$$= \frac{1}{2} \times 6 \times 4.5$$

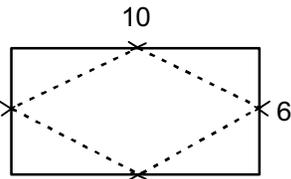
$$= 13.5\text{cm}^2$$

107. The figure obtained by joining the mid-points of the adjacent sides of a rectangle of  $10\text{cm}, 6\text{cm}$ , is :

- (1) a rectangle of area  $30\text{cm}^2$   
(2) a square of area  $25\text{cm}^2$   
(3) a trapezium of area  $30\text{cm}^2$   
(4) a rhombus of area  $30\text{cm}^2$

**Answer (4)**

Sol.



ar (Rhombus)

$$= \frac{1}{2} \times 10 \times 6$$

$$= 30$$

108. If an equilateral triangle of side 9 cm is inscribed in a circle, then its radius is :

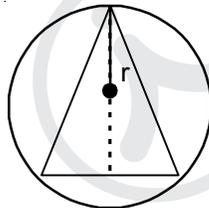
- (1)  $4.5\sqrt{3}$  cm                      (2)  $3\sqrt{3}$  cm  
(3) 6 cm                                      (4) 3 cm

Answer (2)

Sol.

$$r = \frac{2}{3} \times \frac{\sqrt{3}}{2} \times 9$$

$$= 3\sqrt{3}$$



109. If the mode is of the data 23, 15, 24, 40, 27, 26, 22, 25, 20, x is 25 then the value of

- (1) 26                                      (2) 24  
(3) 20                                      (4) 25

Answer (4)

110. If  $x = 2^{1/3} + 2^{2/3}$  then the value of  $x^2 - 6x$  is :

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

Answer wrong question:

Sol.  $x^3 = (2^{1/3} + 2^{2/3})^3$

$$= 2 + 2^2 + 3 \cdot 2^{1/2} \cdot 2^{1/3} (2^{1/3} + 2^{2/3})$$

$$= 6 + 6x$$

$$x^3 - 6x = 6$$

111. If the sum of n terms of an AP is  $5n^2 - 3n$ , then its 100<sup>th</sup> term is :

- (1) 92                                      (2) 2  
(3) 12                                      (4)  $5n^3$

Answer (No Option)

Sol. Let  $S_n = 5n^2 - 3n$

$$a_{100} = S_{100} - S_{99}$$

$$= [5(100)^2 - 3(100)] - [5(99)^2 - 3(99)]$$

$$= 5(100^2 - 99^2) - 3(100 - 99)$$

$$= 5 \times 119 - 3$$

$$= 992$$

112. The expression  $x^4 + 4$  can be factorised as :

- (1)  $(x^2 + 2x + 2)(x^2 - 2x + 2)$   
(2)  $(x^2 + 2x + 2)(x^2 + 2x - 2)$   
(3)  $(x^2 - 2x - 2)(x^2 - 2x + 2)$   
(4)  $(x^2 + 2)(x^2 - 2)$

Answer (1)

Sol.  $x^4 + 4 = (x^2)^2 + 2^2$

$$= (x^2)^2 + 2^2 + 2 \cdot x^2 \cdot 2 - 2 \cdot x^2 \cdot 2$$

$$= (x^2 + 2)^2 - (2x)^2$$

$$= (x^2 + 2 + 2x)(x^2 + 2 - 2x)$$

113. If sides of two similar triangles are in the ratio 4 : 3, then the ratio of their areas is :

- (1) 4 : 3                                      (2) 3 : 4  
(3) 16 : 9                                      (4) 9 : 16

Answer (3)

114. If  $F_1 = F_2 = 1$  and  $F_n = F_{n-1} + F_{n-2}$ , then the value of  $F_3$  is :

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

Answer (2)

Sol.  $F_3 = F_2 + F_1 = 2$

115. If  $\tan \theta = \cot(30^\circ + \theta)$ , then  $\theta =$

- (1)  $45^\circ$                                       (2)  $30^\circ$   
(3)  $60^\circ$                                       (4)  $90^\circ$

Answer (2)

Sol.  $\tan(90 - \theta) = \cot(30 + \theta)$

$$90 - \theta = 30 + \theta$$

$$60 = 2\theta$$

$$\theta = 30^\circ$$

116. The probability that a leap year selected at random which contains 53 Sundays is :

- (1)  $\frac{2}{7}$                                       (2)  $\frac{53}{366}$   
(3)  $\frac{53}{188}$                                       (4)  $\frac{7}{53}$

Answer (1)

Sol. A leap year has 2 odd days (S, M) (M, T) (T, W) (W, Th) (Th, F) (F, Sa), (Sa, S)

$$P(A) = \frac{n(A)}{n(S)} = \frac{2}{7}$$

117. Factors of the polynomial  $2x^4 + x^3 - 14x^2 - 19x - 6$  are :

- (1)  $(x+1), (x-2), (x+3), (x-1)$
- (2)  $(x^2-1), (x-3), (x+1)$
- (3)  $(x+1), (x+2), (x-3), (2x+1)$
- (4)  $(x-1), (x-2), (x+3), (x-3)$

**Answer (3)**

**Sol.**  $f(1) \neq 0 \Rightarrow x-1$  is not a factor of  $f(x)$ . So, option (3)

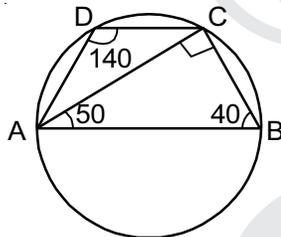
118. ABCD is a cyclic quadrilateral such that AB is a diameter of the circle circumscribing it and  $\angle ADC = 140^\circ$ , then  $\angle BAC$  is :

- (1)  $80^\circ$
- (2)  $50^\circ$
- (3)  $40^\circ$
- (4)  $30^\circ$

**Answer (2)**

**Sol.**  $\angle ABC = 180 - 140 = 40$  (Opp. angles)

$\angle ACB = 90$  (angle in semi circle)



In  $\triangle ACB$ ,

$$\angle CAB + 90 + 40 = 180$$

$$\angle CAB = 50^\circ$$

119. The areas of three adjacent faces of a cuboid are  $p$ ,  $q$  and  $r$ . If its volume is  $v$ , then the square of its volume is :

- (1)  $\sqrt{pqr}$
- (2)  $pqr$
- (3)  $(pqr)^2$
- (4)  $\frac{pqr}{8}$

**Answer (2)**

**Sol.**  $lb = p$  ;  $bh = q$  ;  $hl = r$

$$(lbh)^2 = pqr$$

120. 8 men and 12 boys can finish a work in 10 days while 6 men and 8 boys can finish it in 14 days. Then the number of days taken by one man alone is :

- (1) 240
- (2) 200
- (3) 140
- (4) 280

**Answer (3)**

**Sol.**  $\frac{8}{x} + \frac{12}{y} = \frac{1}{10}$

$$\frac{6}{x} + \frac{8}{y} = \frac{1}{14}$$

Let  $\frac{1}{x} = u, \frac{1}{y} = v$

$$8u + 12v = \frac{1}{10} \text{ solve } x = 140$$

$$6u + 8v = \frac{1}{14}$$

121. The total distance covered by a car is 200 m. It covers the first half of the distance at a speed of  $40 \text{ kmhr}^{-1}$  and the second half of distance at speed  $v$ . If its average speed is  $48 \text{ kmhr}^{-1}$ , the value of  $v$  is :

- (1)  $52 \text{ kmhr}^{-1}$
- (2)  $60 \text{ kmhr}^{-1}$
- (3)  $48 \text{ kmhr}^{-1}$
- (4)  $65 \text{ kmhr}^{-1}$

**Answer (2)**

**Sol.**  $V_{\text{arg}} = \frac{2V_1V_2}{V_1+V_2} \Rightarrow 48 = \frac{2 \times 40 \times V}{40+V}$

$$48 \times 40 + 48V = 80V$$

$$\therefore V = 60 \text{ kmph}$$

122. A block of wood, when floated in water,  $\frac{4}{5}$  of its volume is submerged. When it is floated in a liquid, it just floats. The density of the liquid is :

- (1)  $800 \text{ kgm}^{-3}$
- (2)  $1000 \text{ kgm}^{-3}$
- (3)  $650 \text{ kgm}^{-3}$
- (4)  $1100 \text{ kgm}^{-3}$

**Answer (1)**

**Sol.**  $W = F_B$

$$V \times P_B = V_{\text{in}} \cdot P_2$$

For water

$$V \times P_B = \frac{4}{5} V \times P_w$$

$$P_B = \frac{4}{5} \times 1000$$

$$P_B = 800 \text{ kg / m}^3$$

For liquid

$$V \cdot P_B = V \cdot P_L$$

$$\therefore P_L = P_B = 800 \text{ kg / m}^3$$





139. A compound 'X' reacts with potassium iodide solution to give yellow precipitate. On heating X, reddish brown gas is observed. Compound X is :

- (1)  $\text{PbCl}_2$  (2)  $\text{Pb}(\text{NO}_3)_2$   
 (3)  $\text{PbI}_2$  (4)  $\text{PbSO}_4$

**Answer (2)**

140. For an element with atomic number 19, the 19<sup>th</sup> electron will occupy :

- (1) L - Shell (2) M - Shell  
 (3) N - Shell (4) K - Shell

**Answer (3)**

141. Match the following :

Isotope		Uses	
(a) Fe - 59		(i) eye treatment	
(b) C - 11		(ii) brain scan	
(c) Co - 60		(iii) treatment of anaemia	
(d) P - 32		(iv) treatment of cancer	
(a)	(b)	(c)	(d)
(1) (iii)	(ii)	(iv)	(i)
(2) (ii)	(iv)	(i)	(iii)
(3) (iii)	(i)	(iv)	(ii)
(4) (iv)	(iii)	(ii)	(i)

**Answer (1)**

142. Which of the following reaction is responsible for acid rain ?

- (1)  $4 \text{NO}_2 + \text{O}_2 + 2 \text{H}_2\text{O} \rightarrow 4 \text{HNO}_3$   
 (2)  $2 \text{H}_2 + \text{O}_2 \rightarrow 2 \text{H}_2\text{O}$   
 (3)  $\text{Cl}_2 + \text{H}_2 \rightarrow 2 \text{HCl}$   
 (4)  $4 \text{NH}_3 + 3 \text{O}_2 \rightarrow 2 \text{N}_2 + 6 \text{H}_2\text{O}$

**Answer (1)**

143. Arrange the following elements in the order of their increasing non metallic character.

- Li, O, C, Be, F  
 (1)  $\text{F} < \text{O} < \text{C} < \text{Li} < \text{Be}$   
 (2)  $\text{Li} < \text{Be} < \text{C} < \text{O} < \text{F}$   
 (3)  $\text{F} < \text{O} < \text{C} < \text{Be} < \text{Li}$   
 (4)  $\text{F} < \text{O} < \text{Be} < \text{C} < \text{Li}$

**Answer (2)**

144. The elements A, B, C, D and E have their atomic number 9, 11, 17, 12 and 13 respectively. Which pair of elements belong to the same group ?

- (1) A and B (2) B and D  
 (3) A and C (4) D and E

**Answer (3)**

145. Which is called Indian Saltpeter ?

- (1) Calcium Nitrate (2) Potassium Nitrate  
 (3) Sodium Nitrate (4) Magnesium Nitrate

**Answer (2)**

146. In the treatment of heart attack, which helps the blood vessels to widen or dilate ?

- (1) Acetaminophen (2) Nitroglycerine  
 (3) Nitroparaffin (4) Albendazole

**Answer (2)**

147. In which of the following phase, DNA is Replicated?

- (1) Prophase (2) Metaphase  
 (3) Telophase (4) Interphase

**Answer (4)**

148. Which of the cell organelle lacks membrane?

- (1) Mesosome (2) Mitochondria  
 (3) Ribosome (4) Liposome

**Answer (3)**

149. Cell Theory is not applicable for :

- (1) Bryophytes (2) Algae  
 (3) Gymnosperms (4) Virus

**Answer (4)**

150. In plant A,  $2n = 12$  and in plant B,  $2n = 16$  then the ploidy number of cross breeding plant is :

- (1) 14 (2) 28  
 (3) 12 (4) 16

**Answer (1)**

151. Which of the following is used as Biofertilizer ?

- (1) Salvia (2) Spirogyra  
 (3) Azolla (4) Chlorella

**Answer (3)**

152. Anthocyanin is present in :

- (1) Chloroplast (2) Plastids  
 (3) Nucleus (4) Vacuoles

**Answer (4)**

153. The pyramid which is always upright is :

- (1) Energy pyramid (2) Number pyramid  
 (3) Biomass pyramid (4) None of these

**Answer (1)**

154. Which of the following statement is not correct about thyroxin ?

- (1) Thyroxin is also called thyroid hormone.  
 (2) It regulates carbohydrates, protein and fat metabolism in the body.  
 (3) Thyroid gland requires iodine to synthesise thyroxin.  
 (4) Iron is essential for synthesis of thyroxin.

**Answer (4)**

155. Which among the following is both an endocrine and exocrine gland of human body ?

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

**Answer (4)**

156. The following statements are with reference to chromosomes. Among the given statements, choose the statement which is not true ?

- (a) In metacentric chromosome the centromere lies in the middle of the chromosome and it is a V shaped chromosome.  
(b) IN acrocentric chromosome the centromere lies at one end of the chromosome and it is a J shaped chromosome.

- (1) Both (a) and (b) are true  
(2) (a) is false but (b) is true  
(3) (a) is true but (b) is false  
(4) Both (a) and (b) are false

**Answer (3)**

157. Haemoglobin is also called as :

- (1) RBC (2) WBC  
(3) Respiratory pigment (4) Plasma

**Answer (3)**

158. Expand IVF :

- (1) Inter Vascular Function  
(2) In Vitro Fertilization  
(3) In Vertebrate Function  
(4) Inter Vein Fusion

**Answer (2)**

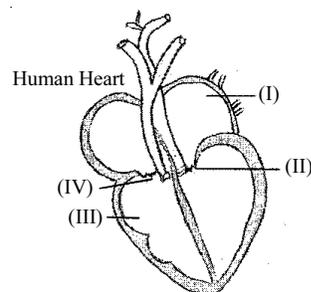
159. Arrange the following parts of the Respiratory System.

- (a) trachea  
(b) nose  
(c) alveoli  
(d) bronchi  
(e) nasal cavity  
(f) bronchiole

- (1) (c) (f) (e) (b) (a) (d)  
(2) (b) (e) (d) (f) (c) (a)  
(3) (b) (e) (a) (d) (f) (c)  
(4) (e) (a) (b) (f) (d) (c)

**Answer (3)**

160. Four students A, B, C and D have labelled the parts of the 'Longitudinal section of the heart'. Choose the student who has labelled all the parts correctly.



Student	(I)	(II)	(III)	(IV)
(1) (A)	Left Atrium	Semi Lunar valve	Right ventricle	Tricuspid valve
(2) (B)	Left Atrium	Mitral value	Left ventricle	Biscuspid valve
(3) ©	Left Atrium	Bicuspid value	Right ventricle	Tricuspid valve
(4) (D)	Left Atrium	Tricuspid value	Right ventricle	Biscuspid valve

**Answer (3)**

161. Who promulgated 'Infallibility Decree' ?

- (1) Babur (2) Humayun  
(3) Akbar (4) Shahjahan

**Answer (3)**

162. \_\_\_\_\_ introduced the Abacus method.

- (1) Chinese (2) Egyptian  
(3) Romans (4) Greeks

**Answer (1)**

163. Find the incorrect pair :

- (1) Plebians - Common man without property  
(2) Tacitus - Meditations  
(3) Parsavanath - 23rd Thirthankara  
(4) Diocletian - Roman Emperor

**Answer (2)**

164. Which two countries were not in the Triple Entente in 1907 ?

- (1) France and Britain (2) Russia and France  
(3) Britain and China (4) China and Germany

**Answer (4)**

165. World War I is also known as :

- (1) The War of Verdun  
(2) The Kaiser's War  
(3) The Joffre's War  
(4) The War to end all wars

**Answer (4)**

166. Match the following :

<b>Empire</b>		<b>Architectural Style</b>			
(a) Chola		(i) Domes			
(b) Pallava		(ii) Tombs			
(c) Mesopotamia		(iii) Protective walls			
(d) Roman		(iv) Rock Temples			
	<b>(a)</b>	<b>(b)</b>	<b>(c)</b>	<b>(d)</b>	
(1)	(ii)	(iv)	(i)	(iii)	
(2)	(ii)	(iii)	(iv)	(i)	
(3)	(iii)	(iv)	(ii)	(i)	
(4)	(iii)	(iv)	(i)	(ii)	

**Answer (3)**

167. Read the following statements and state true or false :

- (a) In August 1941, Atlantic Charter was signed on the board of the battleship 'Arizona'.
- (b) British Prime Minister Winston Churchill and U.S. President F.D. Roosevelt agreed to launch a massive attack against their common enemy Germany.
- (1) (a) is true but (b) is false  
 (2) (a) is false but (b) is true  
 (3) Both (a) and (b) are true  
 (4) Both (a) and (b) are false

**Answer (2)**

168. The old name of Cape of Good Hope is :

- (1) Cape of storm                      (2) Cape comerin  
 (3) Cape of Spain                      (4) Cape town

**Answer (1)**

169. Arrange the following events in chronological order :

- (a) Treaty of Peking                      (b) Treaty of Versailles  
 (c) Treaty of Nanking                      (d) Triple Alliance
- (1) (d)    (b)    (c)    (a)  
 (2) (c)    (b)    (a)    (d)  
 (3) (c)    (a)    (d)    (b)  
 (4) (b)    (d)    (a)    (c)

**Answer (3)**

170. Name the country which got independence before Second World War ?

- (1) Myanmar                              (2) Malaysia  
 (3) Bangladesh                              (4) Egypt

**Answer (4)**

171. Capital of Bosnia \_\_\_\_\_

- (1) Serbia                                      (2) Tannenberg  
 (3) Serajevo                                      (4) Mame

**Answer (3)**

172. The present Secretary General of the United Nations is \_\_\_\_\_

- (1) Ban-Ki-Moon                              (2) Antonia Guterres  
 (3) Kofi Annan                                      (4) Boutros Boutros Ghali

**Answer (2)**

173. Who/which can make changes to an existing law of the country ?

- (1) The Supreme Court    (2) The President  
 (3) The Prime Minister    (4) The Parliament

**Answer (4)**

174. Foreign affairs comes under \_\_\_\_\_ list.

- (1) Union list                                      (2) State list  
 (3) Concurrent list                              (4) Residuary powers

**Answer (1)**

175. Which fundamental right is called as "The Heart and Soul" of our Constitution by Dr. B.R. Ambedkar?

- (1) Right to Equality  
 (2) Right of Freedom  
 (3) Right to Constitutional Remedies  
 (4) Right Against Exploitation

**Answer (3)**

176. Saudi Arabian women were given right to vote on :

- (1) Decemebr 12th 2015    (2) December 10th 2016  
 (3) January 14th 2012    (4) March 31st 2013

**Answer (1)**

177. The person who advocates social, political, legal and economic rights for women equal to those of men in called :

- (1) Castiest                                      (2) Feminist  
 (3) Secularist                                      (4) Communalist

**Answer (2)**

178. Which of the following is true with reference to democracy?

- (A) Democracy allows us to correct mistakes  
 (B) Democracy is a form of Government in which the rulers are elected by the President.
- (1) (A) is true but (B) is false  
 (2) (A) is false but (B) is true  
 (3) Both (A) and (B) are true  
 (4) Both (A) and (B) are false

**Answer (1)**

179. Match the following :

- |                           |  |
|---------------------------|--|
| (a) Writ of Habeas Corpus | (i) Prevents usurpation of public office   |
| (b) Mandamus              | (ii) Quashes an order issued by a sub-ordinate court by overstepping its jurisdiction                      |
| (c) Certiorari            | (iii) Safeguards people from illegal arrests   |
| (d) Quo warranto          | (iv) Protects the petitioner who requires legal help to get his work done by respective public authorities |

- |     | (a)   | (b)  | (c)  | (d)   |
|-----|-------|------|------|-------|
| (1) | (iv)  | (ii) | (i)  | (iii) |
| (2) | (ii)  | (i)  | (iv) | (iii) |
| (3) | (iii) | (i)  | (iv) | (ii)  |
| (4) | (iii) | (iv) | (ii) | (i)   |

**Answer (4)**

180. Expand NOTA :

- (1) None of the Associates
- (2) None of the Aspects
- (3) None of the Anecdotes
- (4) None of the above

**Answer (4)**

181. Formula for determining the value of an MLA vote in Presidential election is :

- (1)  $\frac{\text{Total population of the State or Union Territory}}{\text{Total number of elected members of the Legislative assembly}} \times 1000$
- (2)  $\frac{\text{Total population of the State or Union Territory}}{\text{Total number of elected members of the Legislative assembly}} \times 100$
- (3)  $\frac{\text{Total population of the Country}}{\text{Total number of elected members of the Legislative assembly}} \times 1000$
- (4)  $\frac{\text{Total population of the Country}}{\text{Total number of elected members of the Legislative assembly}} \times 100$

**Answer (1)**

182. International Day of Yoga is observed on :

- |               |               |
|---------------|---------------|
| (1) 20th June | (2) 21st June |
| (3) 20th July | (4) 21st July |

**Answer (2)**

183. The largest country in the world in terms of area :

- |            |            |
|------------|------------|
| (1) China  | (2) Canada |
| (3) Russia | (4) India  |

**Answer (3)**

184. Assam, Meghalaya, Tripura and Mizoram have common frontier with :

- |            |                |
|------------|----------------|
| (1) China  | (2) Bangladesh |
| (3) Bhutan | (4) Myanmar    |

**Answer (2)**

185. Among the following which railway station has the longest railway platform in India?

- |               |              |
|---------------|--------------|
| (1) Gorakhpur | (2) Kollam   |
| (3) Kharagpur | (4) Bilaspur |

**Answer (1)**

186. Pick the odd man out :

- |             |              |
|-------------|--------------|
| (1) Khyber  | (2) Shipkila |
| (3) Rohtang | (4) Gangotri |

**Answer (4)**

187. The running water that cuts clayey soils and makes deep Channels.

- |                  |                   |
|------------------|-------------------|
| (1) gullies      | (2) sheet erosion |
| (3) soil erosion | (4) wind erosion  |

**Answer (1)**

188. The state having the largest forest cover in India :

- |                       |                    |
|-----------------------|--------------------|
| (1) Arunachal Pradesh | (2) Madhya Pradesh |
| (3) Chhattisgarh      | (4) Maharashtra    |

**Answer (2)**

189. The only river that flows through Great Indian Desert :

- |            |              |
|------------|--------------|
| (1) Sutlej | (2) Mahanadi |
| (3) Beas   | (4) Luni     |

**Answer (4)**

190. Who proudly proclaimed dams as the 'Temples of Modern India' ?

- |                       |                         |
|-----------------------|-------------------------|
| (1) Mahatma Gandhi    | (2) Jawaharlal Nehru    |
| (3) Dr. B.R. Ambedkar | (4) Dr. Rajendra Prasad |

**Answer (2)**

191. The state which does not have an international border or lie on the coast:

- (1) Mizoram                      (2) Assam  
 (3) Chhattisgarh                (4) Bihar

**Answer (3)**

192. The Himalayas stretches along six countries. They are :

- (1) Bhutan, India, Nepal, China, Indonesia and Pakistan  
 (2) Bhutan, India, Afghanistan, China, Indonesia and Pakistan  
 (3) Bhutan, India, Nepal, Indonesia, Afghanistan and Pakistan  
 (4) Bhutan, India, Nepal, Afghanistan, China and Pakistan

**Answer (4)**

193. In which of the following places are houses built on stilts ?

- (1) Assam                              (2) Rajasthan  
 (3) Goa                                      (4) Kerala

**Answer (1)**

194. Pick the odd man out :

Social indicators of poverty.

- (1) Malnutrition  
 (2) Literacy  
 (3) Inaccessibility to safe drinking water  
 (4) Unemployment

**Answer (2)**

195. "In Raghu's field ten people are sufficient to do the harvesting work. Since some of his relatives joined the work, he employed seventeen people". What type of unemployment is found in this situation?

- (1) Seasonal unemployment  
 (2) Structural unemployment  
 (3) Disguised unemployment  
 (4) Cyclical unemployment

**Answer (3)**

196. The literacy rate of India according to 2011 census is :

- (1) 74%                                      (2) 53%  
 (3) 84%                                      (4) 65%

**Answer (1)**

197. Expand - NEFT :

- (1) Net Electronic Fund Transfer  
 (2) Net Electronic Finance Transfer  
 (3) National Electronic Fund Transfer  
 (4) National Electronic Fund Tariff

**Answer (3)**

198. Which among the following statements are not the features of Special Economic Zone ?

- (a) SEZ Act was passed in 2005  
 (b) License is required for import  
 (c) 100% Income Tax exemption on export incomes  
 (d) Permission is required for sub contracting  
 (1) (a) and (d)  
 (2) (b) and (c)  
 (3) (a) and (c)  
 (4) (b) and (d)

**Answer (4)**

199. GST came into force on :

- (1) 1st May 2017  
 (2) 1st June 2017  
 (3) 1st July 2017  
 (4) 1st August 2017

**Answer (3)**

200. Interest payment will be higher on a house loan on account of :

- (1) high risk of borrower profile  
 (2) high tenure of loan  
 (3) high rate of interest  
 (4) all the above

**Answer (4)**

