

# MENTAL ABILITY AND LANGUAGE COMPREHENSION TEST

## Part – I

(FOR Students of Class X)

Time : 90 Minutes

Max. Marks : 100

### Instructions to Candidates

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

1. Answers are to be given on the same OMR Answer Sheet provided for Part – I.
2. There are **100** questions in this test. All are compulsory.
3. This test consists of **two** sections.  
Mental Ability test for **50** marks.  
Language Comprehension Test (English) For **50** Marks.
4. Choose the correct answer from the options given for each question and darken the corresponding circle with black ball point pen in the OMR answer Sheet.
5. Since the time allotted for this Question Paper is very limited you should make the best use of it by not spending too much time on any one question.
6. If you do not know the answer to any question, do not waste time on it and pass on to the next one. If time permits, you can come back to the questions, which you have left in the first instance and attempt them.
7. Rough work can be done anywhere in the Question Booklet but **not** on the OMR Sheet/loose paper.
8. Every correct answer will be awarded one mark.
9. Please return the **OMR Answer Sheet only to the invigilator after completion of the test. You can retain the Question Booklets.**
10. English version of the Question paper will be considered as final in case of any dispute arising out of variation in translated version.
11. Quote your seven digit Roll number without fail for any future correspondence.

**PLEASE TURN OVER THE PAGE AND START ANSWERING.**

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**Name of the Candidate** : .....

**Enrollment Number** : .....

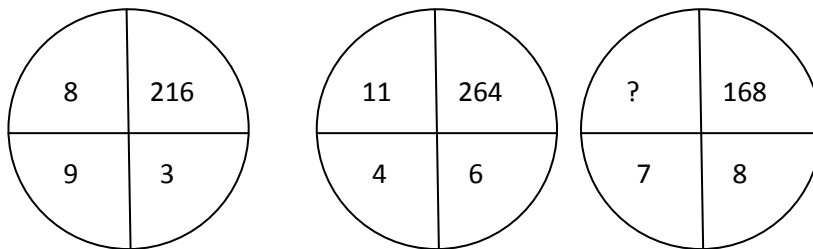
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**DIRECTION: (question number 1 to 5)**

In each of the following questions, the numbers/letters are arranged based on some pattern or principle. Choose the correct answer for the terms marked by the symbol (?)

1. 37, 511, 713, \_\_\_\_\_?  
 (A) 474 (B) 985 (C) 1117 (D) 132
2. 6, 13, \_\_\_\_\_, 33.  
 (A) 11 (B) 20 (C) 22 (D) 14
3. \_\_\_\_\_, 7, 26, 63  
 (A) 1 (B) 0 (C) 2 (D) 3
4. 4, 6, 8, 9, \_\_\_\_\_.  
 (A) 11 (B) 12 (C) 13 (D) 10
5. 12, \_\_\_\_\_, 56, 78.  
 (A) 34 (B) 35 (C) 23 (D) 13
6. If JACK = 25 and QUEEN = 62, what is KING =?  
 (A) 37 (B) 41 (C) 81 (D) 87

7.



- (A) 4 (B) 3 (C) 42 (D) 21

8. If A = +, B = ÷, C = X and D = -, then what is the value of  $\frac{1}{5}C2B\frac{1}{5}A\frac{1}{5}D\frac{1}{10}$  =?  
 (A) 2.1 (B) 1.3 (C) 0.9 (D) 0.5
9. The value of  $\frac{1}{(216)^{-2/3}} + \frac{1}{(256)^{-3/4}} + \frac{1}{(32)^{-1/5}}$  is:  
 (A) 102 (B) 105 (C) 107 (D) 109
10.  $\sqrt[3]{0.000064} =$   
 (A) 0.02 (B) 0.2 (C) 2.1 (D) 3.0

11. The value of  $\frac{1}{3 + \frac{1}{1 - \frac{1}{6}}}$  is \_\_\_\_\_.

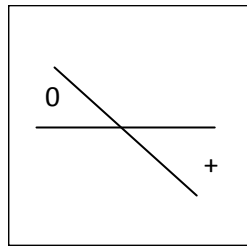
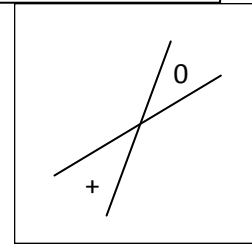
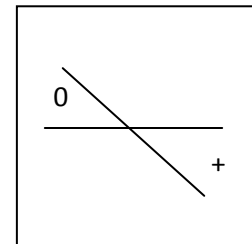
- (A)  $\frac{5}{21}$                       (B)  $\frac{21}{5}$                       (C)  $\frac{9}{5}$                       (D)  $\frac{5}{9}$

12. If 'n' is a positive integer greater than 3, then  $\left(1 - \frac{1}{3}\right)\left(1 - \frac{1}{4}\right)\left(1 - \frac{1}{5}\right) \dots \dots \left(1 - \frac{1}{n}\right)$  is

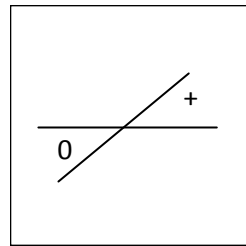
- (A)  $\frac{1}{n}$                       (B)  $\frac{2}{n}$                       (C)  $\frac{n-1}{2}$                       (D)  $\frac{2}{n(n+1)}$

13. A figure is followed by its four mirror images. Select the correct mirror image from the given choices, when a mirror AB is kept above the figure:

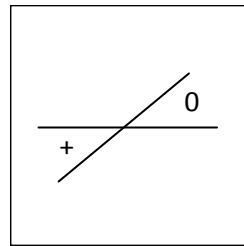
A B



(A)



(B)



(C)

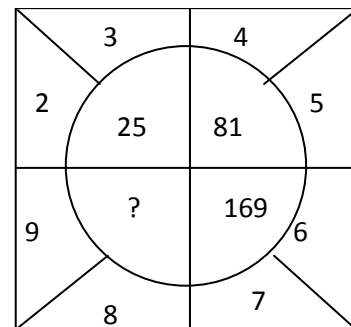
14. Find the missing letter:

- (A) J                      (B) V  
(C) H                      (D) M

G	Q	W
?	I	S
U	O	K

15. Insert the missing number:

- (A) 122                      (B) 289  
(C) 92                      (D) 242



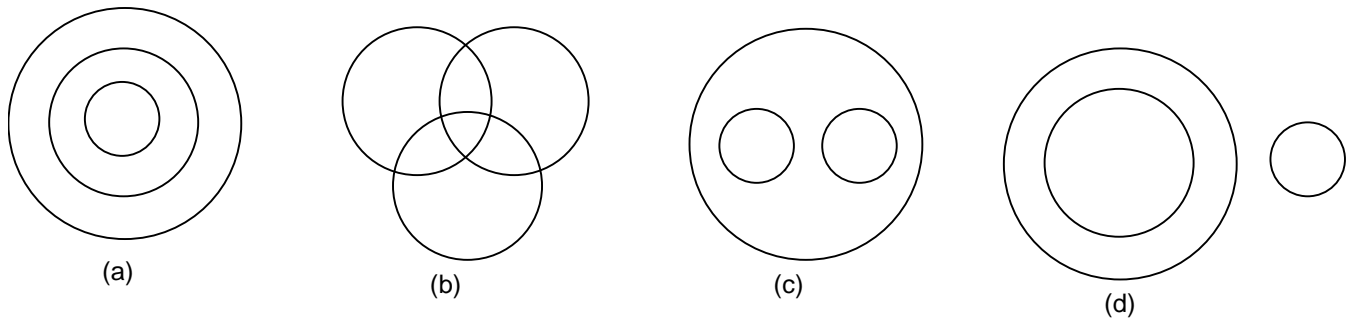
**Direction: (Question number 16 to 18)**

The first two terms are connected by some relationship. The same relationship is applicable for the next two terms, in which one is a blank space. Identify term from the given four alternatives for the blank space.

16. Stag: Fawn :: kangaroo : \_\_\_\_\_  
 (A) Cygnet (B) Joey (C) Infant (D) Foal
17. Whale : School :: Snake : \_\_\_\_\_  
 (A) Stack (B) Knot (C) Swarm (D) Sheaf
18. Pathology : Diseases :: Arachnology : \_\_\_\_\_  
 (A) Beetles (B) Spiders (C) Bees (D) Teddy bear

**Direction: (Question number 19 to 22)**

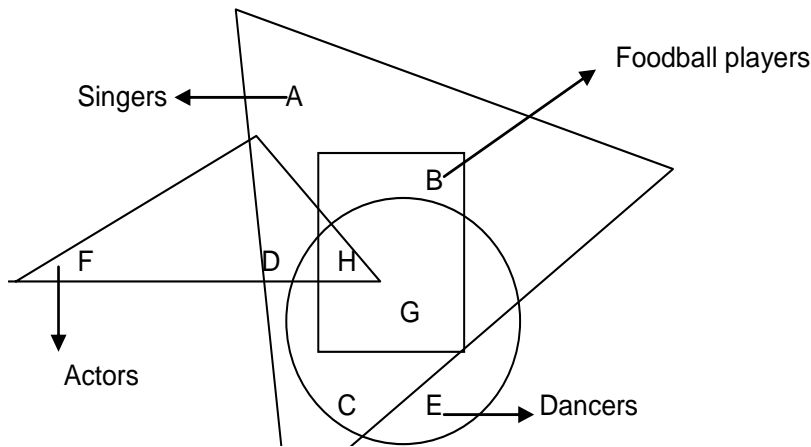
The following diagrams show some relationship among 3 times. For each group of elements, there corresponds one diagram (a), (b), (c) or (d). Select the suitable diagram



19. Rectangle, Parallelogram, Quadrilateral:  
 (A) (a) (B) (b) (C) (c) (D) (d)
20. Triangle, Polygon, Circle:  
 (A) (a) (B) (b) (C) (c) (D) (d)
21. Vegetables, Fruits, Eatables:  
 (A) (a) (B) (b) (C) (c) (D) (d)
22. Natural numbers, whole numbers, integers:  
 (A) (a) (B) (b) (C) (c) (D) (d)
23. In a certain code, LOTUS is written as ULSTO. What will MANGO be written in the code?  
 (A) MOANG (B) GMONA (C) GMAON (D) MGOAN

**Direction: (Question number 24 to 28)**

The following diagram consisting of four overlapping figures, represent four segments of population. The large triangle represent singers, the circle dancers, the rectangle football players and small triangle actors. Study the diagram and answer the questions.



24. Actors and singers but not dancers:  
 (A) F and D (B) F, D and H (C) D and H (D) F and H
25. Danvers who are not football players:  
 (A) C and E (B) C, E and H (C) C, H and G (D) E Only
26. Singers who are not dancers:  
 (A) A and D (B) A and B (C) A only (D) A, D and B
27. Football players who are not singers:  
 (A) B only (B) H only (C) Nil (D) G only
28. Name the segment of population which represent all the categories.  
 (A) D only (B) C only (C) B only (D) H only

**Direction: (Question number 29 to 32)**

Read the content and answer the given question.

A is shorter than B but taller than C. D is taller than B. E is taller than B but not as tall as D.

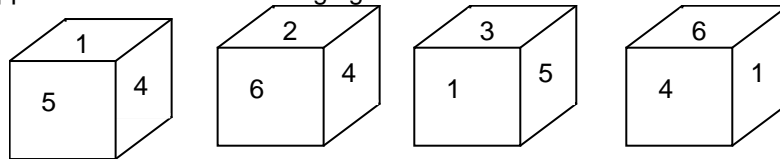
29. Who is the tallest of all?  
 (A) A (B) D (C) B (D) E
30. Who is the second tallest?  
 (A) E (B) B (C) D (D) C
31. Who comes middle in the height?  
 (A) C (B) E (C) B (D) A
32. Who is the shortest?  
 (A) A (B) B (C) C (D) D

**Direction: (Question number 33 and 34)**

Choose the word which is least like the other words

33. (A) Fungus (B) Medium (C) Strata (D) Terminus
34. (A) Hen (B) Falcon (C) Bull (D) Jenny
35. The unit digit of the number  $(986)^{205}$  is:  
 (A) 6 (B) 0 (C) 8 (D) 9
36. Find out the word that can be formed by using the letters of the word 'czechoslovakia' using once.  
 (A) kiosk (B) zeal (C) cheap (D) larva
37. If  $2*5=4110$ ,  $3*7=9121$ ,  $5*2=25110$  then  $4*8=?$   
 (A) 32116 (B) 12132 (C) 64112 (D) 16132
38. The unmatched element of the series is 4, 21, 56, 101, 201.  
 (A) 4 (B) 101 (C) 56 (D) 21

39. The number opposite to 6 for the following figures is:

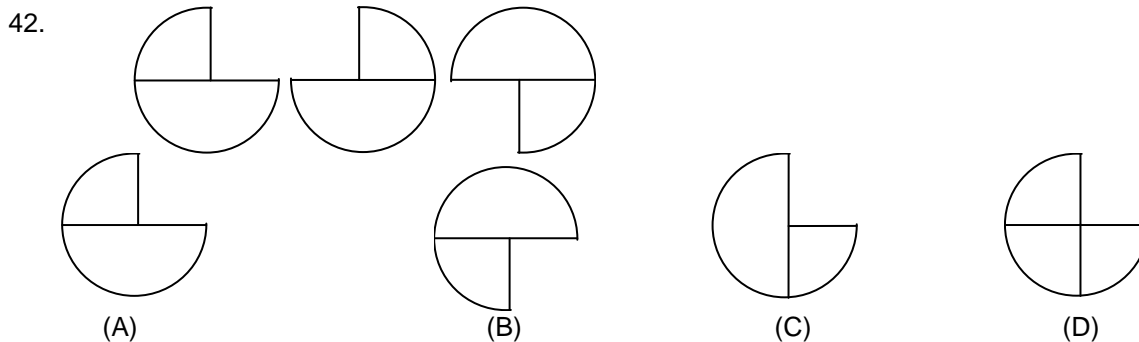
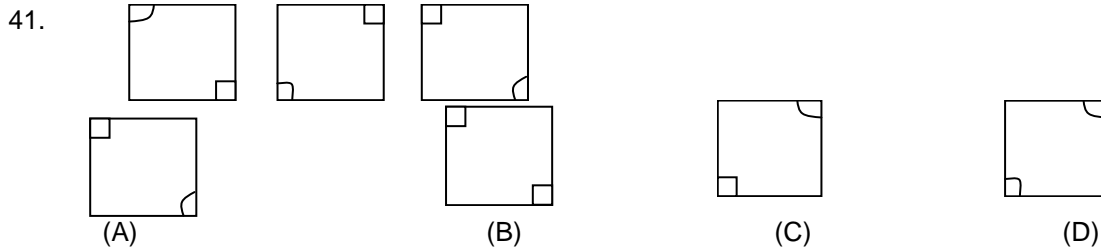


- (A) 5 (B) 4 (C) 3 (D) 2

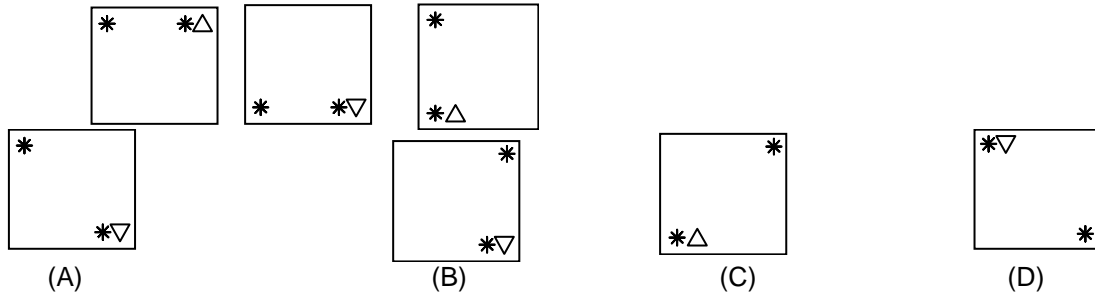
40. Reena is Sunil's sister. Janaki is Sunil's mother. Sankar is Janaki's father. Savithri is Janaki's mother. Vijaya is Sankar's mother. How is Reena related to Vijiaya?  
 (A) Daughter (B) Grandmother (C) Granddaughter (D) Great granddaughter

**Direction: (Question number 41 to 43)**

The next figure in the following sequence of figure is:



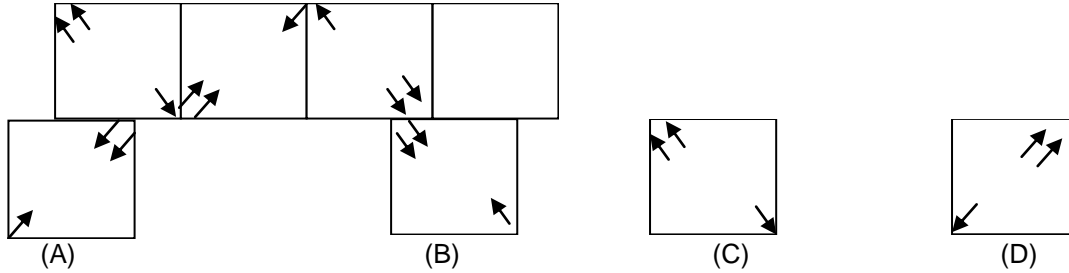
43.



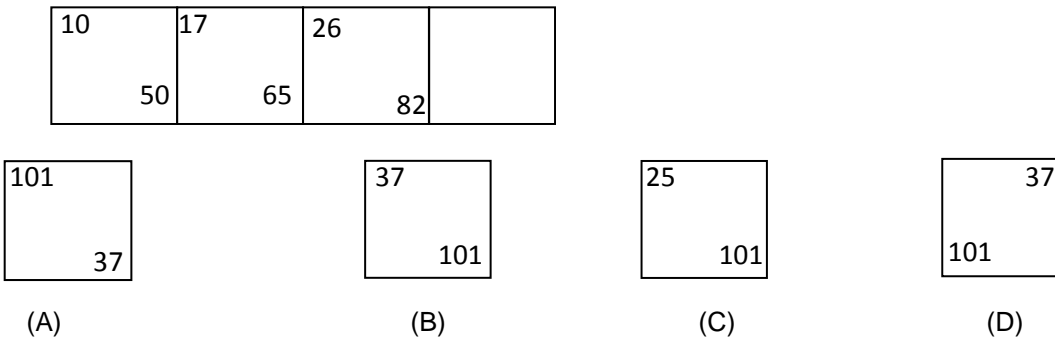
**Direction: (Question number 44 to 46)**

Choose the missing figure.

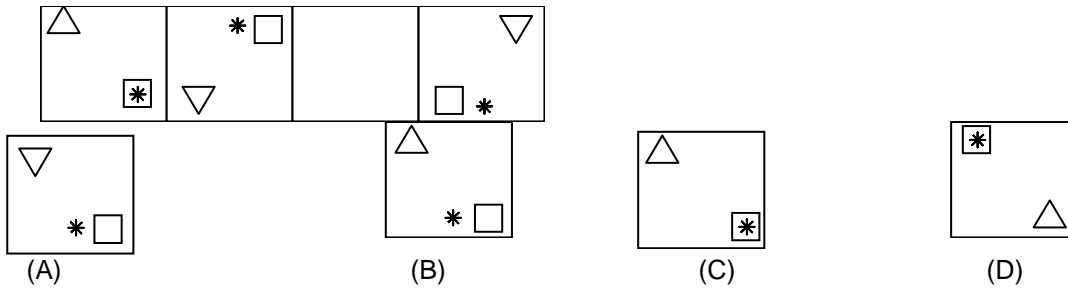
44.



45.



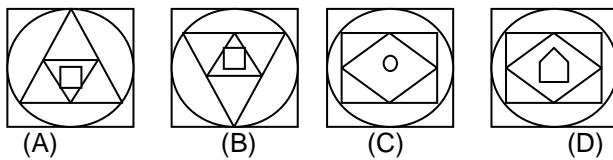
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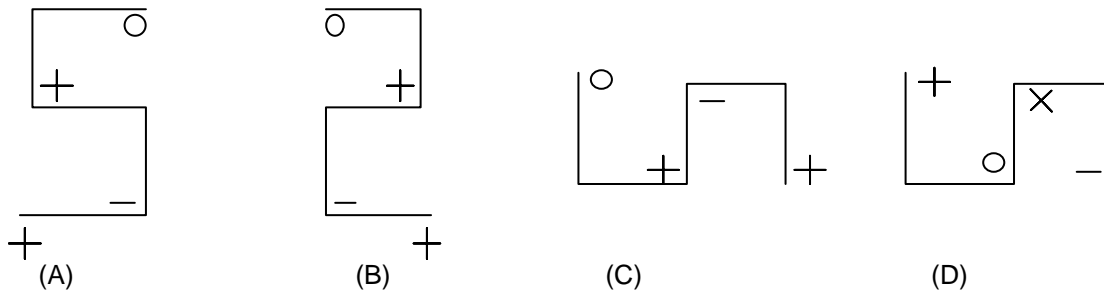
**Direction: Question number 47 to 49)**

Choose the figure which is different from others.

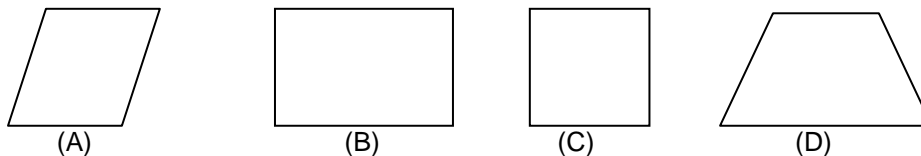
47.



48.

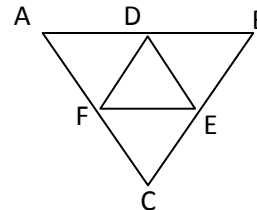


48.



50. ABC is an equilateral triangle. D, E and F are the midpoints of AB, BC and CA respectively. Then, the number of equilateral triangles in the diagram:

- (A) 5 (B) 4  
(C) 8 (D) 6



### LANGUAGE COMPREHENSION TEST (ENGLISH)

**Direction: (Question number 51 to 55)**

**Read the passage carefully and answer the questions given below:**

One of the reasons why this cleavage exists is the fact that modern technological society has reduced man to a mere automation and he is unable to realize his true potential as a human being. Is it any wonder then that the youth of today is not happy with the shape of things in the world? Impelled by idealism and a spirit of adventure, youth is determined to establish a new social order, just and fair. But it is still trying to grasp new ideas and establish new values, making experiments in living, learning and working in search of joy and happiness. It is a long and arduous quest that youth is after. We have to adopt a more positive and sympathetic approach to the problems and difficulties confronting the youth and show greater awareness and understanding of their feelings and sentiments which motivate all their actions.

51. What has man become in this technological age?  
 (A) a true human being (B) young in spirits  
 (C) almost a machine (D) none of these
52. What is the mental reaction of the young towards the present day affairs?  
 (A) they are wonder struck (B) they are confused  
 (C) they have become happy (D) they are frustrated
53. What type of society the young want to establish ?  
 (A) a society with ideal social order  
 (B) a society with new values  
 (C) a society with a just social order  
 (D) none of these



54. Which of the following the young of today is not doing?  
(A) trying to understand new ideas  
(B) experimenting with new ways of living  
(C) working in search of joy  
(D) developing a rational approach
55. What is the main idea of the passage?  
(A) Youth is trying to create a new social order  
(B) A sympathetic approach towards the problems is necessary  
(C) A sympathetic attitude towards troubled youth and their problems be adopted.  
(D) None of these

**Direction: (Question number 56 to 60)**

**Read the given poem carefully and answer the questions given below:**

**LINES WRITTEN IN EARLY SPRING**

I heard a thousand blended notes,  
While in a grove I sat reclined,  
In that sweet mood when pleasant thoughts  
Bring sad thoughts to the mind.  
To her fair works did Nature link  
The human soul through me ran;  
And much it grieved my heart to think  
What man has made of man.  
Though primrose tufts, in that green bower,  
The periwinkle trailed its wreaths;  
And 'tis my faith that every flower  
Enjoys the air it breathes;  
The birds around me hopped and played,  
Their thoughts I cannot measure;  
But the least motion which they made  
It seemed a thrill of pleasure.  
The budding twigs spread out their fan,  
To catch the breezy air;  
And I must think, do all I can,  
That there was pleasure there.  
If this belief from heaven be sent,  
If such be Nature's holy plan,  
Have I not reason to lament  
What man has made of man?

- William Wordsworth

**On the basis of your understanding of the poem answer the following questions with the help of the given option:**

56. "Have I not reason to lament  
What man has made of man"  
What is the mood of the poet in these lines?  
(A) Happiness (B) Pessimism (C) Melancholy (D) Bewilderment
57. What 'seemed a thrill of pleasure'?  
(A) Nature's music (B) The budding twigs  
(C) Nature's holy plan (D) Birds hopping and playing
58. Where is the poet sitting?  
(A) By the river (B) In a wood (C) On a boat (D) In a house

59. Who hopped and played around the poet?  
(A) Children (B) Birds (C) Rabbits (D) Snakes
60. Identify the rhyme scheme of the poem.  
(A) aabc (B) abba (C) abab (D) aabb

**Direction: (Question number 61 to 65)**

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

The python is a huge snake, (61) to about 12 to 15 feet; the largest (62) one measuring 19 feet 2 inches (63) in West Bengal. Its (64) varies from dark brown to deep chocolate with a (65) of patches from neck to tail on its upper body.

61. (A) stretch (B) stretching (C) stretched (D) stretches
62. (A) recording (B) record (C) records (D) recorded
63. (A) find (B) found (C) finding (D) finds
64. (A) design (B) length (C) colour (D) segments
65. (A) lot (B) scarcity (C) little (D) unit

**Direction: (Question number 66 to 67)**

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

66. Gone are the days.  
P. the flow of tourists from  
Q. when the Dal Lake  
R. different parts of the world  
S. was overtaken by  
(A) QRSP (B) QPRS (C) QSRP (D) QSPR
67. The Crafts Mela  
P. and grander than  
Q. what I had imagined  
R. was much more impressive  
S. at Suraj Khant  
(A) SRQP (B) RQSP (C) SRPQ (D) QSRP

**Direction: (Question number 68 to 70)**

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

It was a rainy day. Traffic \_\_\_\_ (68) busy on the road. A \_\_\_\_ (69) bus hit a car badly in the market. Five commuters were badly injured and one \_\_\_\_ (70) .

68. (A) will be (B) was (C) is (D) has been
69. (A) speed (B) speeded (C) sped up (D) speeding
70. (A) was died (B) had died (C) died (D) is died

**Direction: (Question number 71 to 75)**

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

71. It cost her an arm and a leg to bail her husband out.  
(A) dead cheap (B) very expensive (C) peace of mind (D) physical health
72. The party did not want to nominate Balan for the presidency as he was a loose cannon.  
(A) hysterical (B) difficult (C) unpredictable (D) arrogant
73. The parents advised the girls to keep a civil tongue in the party.  
(A) maintain oral hygiene (B) relief the food  
(C) crack humorous jokes (D) speak politely
74. In order to aim a scholarship, Deepa is keeping her nose to the grindstone.  
(A) fight with a determination (B) drawing other's attention  
(C) interfere in other's affairs (D) concentrate in studies
75. The teacher treated Mohan's explanation for delayed submission of project as "cock and bull story".  
(A) probable story (B) credible idea  
(C) trust – worthy point (D) improbable tale

**Direction: (Question number 76 to 80)**

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

Our heritage (76) us many things about where we (77) from. Infact the spirit of any nation (78) upon its heritage, and if this knowledge (79) shaky, the nation (80) much of the important factors of existence itself.

76. (A) tell (B) tells (C) told (D) has told
77. (A) had came (B) have come (C) come (D) will come
78. (A) is founded (B) has been found (C) will be found (D) have been found
79. (A) became (B) becomes (C) becoming (D) can become
80. (A) has lost (B) will lose (C) lose (D) loses

**Direction: (Question number 81 to 85)**

**Substitute Phrasal verbs:**

81. Te match was put off due to inclement weather.  
(A) cancelled (B) stopped (C) resumed (D) postponed
82. The thieves got away with five crore looted from the train.  
(A) arrested with (B) caught (C) escaped (D) appeared
83. Not many guests turned out for the party.  
(A) departed (B) stayed (C) returned (D) appeared
84. It is difficult to put up with a quarrelsome person.  
(A) climb (B) keep up something (C) tolerate (D) quarrel
85. Mala takes after her mom.  
(A) follows (B) obeys (C) disobeys (D) looks like

**Directions : (Question number 86 to 90)**

Identify which of the four sentences is correct.

86. It seems to be the rule of the world. \_\_\_\_\_?  
(A) Isn't it (B) Does it (C) Doesn't it (D) Is it
87. Find the correct passive form:  
All in the court appreciated the verdict.  
(A) The verdict had been appreciated by all in the court.  
(B) The verdict was being, appreciated by all in the court  
(C) The verdict was appreciated by all in the court  
(D) The verdict has been appreciated by all in the court
88. Find the correct reported form:  
James said to his younger sister, " Why were you late from school yesterday?"  
(A) James asked her younger sister why she were late the previous day.  
(B) James asked his younger sister why she had been late the previous day  
(C) James asked his younger sister why she was late the previous day.  
(D) James told his younger sister why she was late yesterday.
89. Identify the complex sentence:  
(A) The roof was high for me to touch  
(B) The roof was very high and I could not touch it  
(C) The roof was very high therefore I could not touch it  
(D) The roof was so high that I could not touch it.
90. Identify which of the four sentence is correct:  
(A) Let's meet during two and three  
(B) Let's meet between two to three  
(C) Let's meet from two and three  
(D) Let's meet between two and three

**Direction : (Question number 91 and 92)**

Identify the most appropriate SYNONYM of the underlined word from the options given below.

91. The manager gave a cursory glance at the mails he received.  
(A) detailed (B) casual (C) thorough (D) hateful
92. Is there anything that we could do to ameliorate the situation?  
(A) electrify (B) justify (C) improve (D) approve

**Direction:(Question number 93 and 94)**

Identify the most appropriate ANTONYM for the underlined word from the options given below.

93. The reasoning behind the equations he derives is infallible.  
(A) irregular (B) insignificant (C) unsuitable (D) imperfect
94. The team captains deliberately entered into an argument  
(A) intentionally (B) inadvertently (C) gradually (D) foolishly

**Direction: (Question number 95 to 98)**

Spot the errors.

95. (The bride's family) (has sent us) (an invitation) (for dinner).  
(A) (B) (C) (D)
96. (The newly started Airlines) (acquired) (a flight of aircraft) (to start its operations fleet).  
(A) (B) (C) (D)

97. (Had I been carefully) (I will) (have averted) (the accident).  
(A) (B) (C) (D)
98. (No sooner had) (Shivam returned home) (when she) (started cooking).  
(A) (B) (C) (D)

**Direction: (Question number 99 and 100)**

Choose the best meaning for the given proverb from the options given below.

99. Birds of the same feather flock together.  
(A) Like poles repel : Unlike poles attract  
(B) People of dissimilar looks group together.  
(C) Diverse ideas unite people  
(D) Similarities unite people
100. Do not cast pearls before a swine.  
(A) Do not waste pearls.  
(B) Speak clever topics to the ignorant.  
(C) Avoid speaking wisdom to fools.  
(D) Pearls are costly.