

# Logic Marathon by Cetking



Thane – 09930028086  
 Vashi – 09820377380  
 Dadar – 09167917984  
 Vile Parle – 09833579791  
 Borivali – 09167917984  
 Pune – 07045914603  
 Online – 09594938931

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## Logic 25 marks new paper pattern

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- Online – 09594938931  
 Thane – 09930028086  
 Vashi – 09820377380,  
 Dadar – 091679 17984  
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## Test 25 minutes and 30 questions

Study the given information and answer the following questions. @ – North, # – South, \$ – East, % – West & – Either 3 Km or 10 Km, © – Either 4 Km or 7 Km For example: P@Q means P is to the North of Q. P&Q means P is either at 3 Km or 10 Km from Q. P@\$Q means P is to the North-East of Q. P@&Q means P is North of Q and in either 3 Km or 10 Km distance. Directions: Point A is 4 Km South to the point O. I. A%&B, II. B©C, III. E#&D, IV. C@B, V. E%O, VI. C\$&D, VIII. A#\$D

- If Point X is placed 7 Km West of Point A. What is the distance between D and X?  
 1. 2 Km 2. 5 Km 3. 7 Km 4. 10 Km 5. CBD
- What is the distance between E and O?  
 1. 3 Km 2. 4 Km 3. 7 Km 4. 10 Km 5. None
- What is the distance between O and B?  
 1. 5 Km 2.  $\sqrt{29}$  Km 3. 6 Km 4. 9 Km 5. 10 Km
- Which of the following is true?  
 1. E#\$A 2. E@A 3. E@%A 4. E#%A 5. None
- Y is a point such that Y@@O then C will be?  
 1. North West of Y 2. North East of Y 3. South West of Y 4. South East of Y 5. Cannot be determined

Q(6-10). If all the Vowels in the alphabets are excluded and rest of Consonants as coded as follows i.e., B as 1, C as 2, D as 3..... upto K as 8. Then from L as 1, M as 2,.... upto T as 8. Again V as 1, ..... upto Z. Conditions:

- If the word begins with Consonant and ends with Vowel then 3rd letter of the word will be coded as '&'
- If the word begins with Vowel and ends with consonant then code of all the consonants are to be changed to next digit of higher value
- If more than two Vowels are there in the word then first two Vowels are coded as 'e'
- If two same vowels (or) consonants follow one another then both are coded as '\*\*'

- What is the code for the 'tummy big roll'?  
 1. 8u\*\*4 2i5 6o\*\* 2. 8u\*\*4 1i5 6o\*\*  
 3. 7u\*\*3 1i5 6o\*\* 4. 8u223 1i5 6o\*\* 5. None
- What is the code for the word 'adventure'?  
 1. a31e38u6e 2. e31e38e6e 3. e31e38u6e  
 4. e21e38u6e 5. None
- What is the code for the 'force upon'?  
 1. 4o62e u5o4 2. 4o&2e u5o4 3. 4o&2e u4o3  
 4. 4o&2e u5o4 5. None
- What is the code for the word 'surveillance'?  
 1. 7e&1ei\*\*a33e 2. 7u&1ei\*\*a33e 3. 7e61ei\*\*a33e  
 4. 7e&1ei11a33e 5. None
- What is the code for the word 'emulsion'?  
 1. e3u28io4 2. e3e28io4 3. e3e28io4 4. e2e17io3 5. None

Q (11-15) Study the given information relating to Machine Input and Output, then answer the following questions

- Input: 64 57 mxtj 12 osvr 27 jmno 46 vklp 35 rmos prjm  
 Step I: lzqn 114 64 12 osvr 27 jmno 46 vklp 35 rmos prjm  
 Step II: otgr 160 lzqn 114 12 osvr 27 jmno 46 vklp 35 rmos  
 Step III: ioks 105 otgr 160 lzqn 114 12 osvr 27 46 vklp rmos  
 Step IV: umit 161 ioks 105 otgr 160 lzqn 114 12 osvr 27 rmos

Step V: nusv 108 umit 161 ioks 105 otrg 160 lzqn 114 12 rmos  
 Step VI: qolw 54 nusv 108 umit 161 ioks 105 otrg 160 lzqn 114  
 Step VI is the final step for above arrangement  
 Now answer the following questions based on the Input given below.  
 Input: 62 59 jnop 16 itr 29 smkj 44 xkov 33 mnmn gjrt

11. In Step IV, what is the difference between the elements which are 2nd from the left end and 7th element from the right end?  
 1. 0 2. 1 3. 36 4. 55 5. Cannot be determined

12. Which element will be 4th to the right of the 4th element from the left end of the row in step V?  
 1. 154 2. lpjr 3. 155 4. rohn 5. None

13. Which element present exactly between 155 and 118 in Step III?  
 1. rohn 2. rmhn 3. rmnn 4. romn 5. None

14. In which of the following steps the elements '99 and 155' appear as consecutive elements in same order??  
 1. Step I 2. Step II 3. Step III 4. Step IV 5. There is no such step

15. How many elements are there between the elements '72' and 'lpjr' in step VI?  
 1. One 2. Two 3. Three 4. Five 5. Six

Q (16-20) Answer the questions based on the information given below  
 A#B' is 'A is the father of B' 'A@B' is 'A is the wife of B'  
 'A%B' is 'A is the brother of B' 'A\$B' is 'A is the sister of B'  
 'A&B' is 'A is the daughter of B' 'A\*B' is 'A is the son of B'  
 I. E\*C II. H@F III. J\*G IV. F%E V. L\$K  
 VI. J%I VII. I&E VIII. K\*F IX. F\*D

16. What is the relation between G and C?  
 1. G is daughter of C 2. C is daughter of G  
 3. C is daughter in law of G 4. G is daughter in law of C 5. None

17. How many females are there in the family?  
 1. Two 2. Three 3. Four 4. Five 5. CBD

18. Who among the following is the grandson of D??  
 1. J 2. I 3. K 4. L 5. Both J and K

19. Who among the following is not a Male??  
 1. E 2. F 3. J 4. K 5. L

20. What is the relation between I and L?  
 1. I is sister of L 2. I is brother of L 3. I is cousin of L  
 4. I is sister in law of L 5. Cannot be determined

## Data Sufficiency

Read all the statements carefully and find which of the statements is/are sufficient to answer the given question. Choose the correct alternative in each question.

21. Question: In a certain code, 'XYZ' means 'We are friends'. Which letter stands for 'We' ?

Statements:

I. 'PYN' means 'They are classmates'.

II. 'ZMS' means 'We love them'.

III. 'PX' means 'Hello friends',

A. Only II B. Only I and III C. All I, II and III D. Either I only or II only E. None of these

22. Question: Among P, Q, R, S and T, Q is the second tallest and S is immediate taller than the shortest. Who among them is in the middle when they stand in the order of their heights ?  
 Statements:

I. T is not the shortest.

II. R is taller than S but shorter than Q.

III. P ranks third in height above S when all are arranged in the order of height.

A. Only I and II B. Either II only or I and III only C. Only II D. Only II and III E. None of these

23. Question: Four subjects - Physics, Chemistry, Mathematics and Biology - were taught in four consecutive periods of one hour each starting from 8.00 a.m. At what time was the Chemistry period scheduled ?

Statements:

I. Mathematics period ended at 10.00 a.m., which was preceded by Biology.

II. Physics was scheduled in the last period.

III. Mathematics period was immediately followed by Chemistry.

A. Only I B. Either I only or II only C. Only II D. Only II and III E. Only I and either II or III

24. Question: What is the total monthly salary of Vasu ?

Statements:

I. Vasu's basic salary is Rs 100 more than Rajan's salary who also serves in Vasu's company.

II. Other allowances drawn by Rajan besides his basic salary are Rs 2000 per month which is Rs 50 less than Vasu's allowances.

III. Rajan's basic salary is Rs 1550 per month,

A. Only II B. Only II and III C. Only I and II D. Only I and III E. All I, II and III

25. Question: Who is the tallest among six boys P, T, N, D, Q and R?

Statements:

I. P is taller than D and N but not-as tall as T.

II. R is taller than Q but not as tall as T.

III. Q is not taller than T and R.

A. Only I and II B. Only II and III C. Only I and III D. All I, II and III E. Only I and either II or III

## Symbols

26. In which of these expressions ' $S > V$ ' be definitely false?

A.  $S > P \geq Q = G \geq R > V$

B.  $P < A \leq S \leq T; V \geq O > T$

C.  $V \leq A \leq L = R < S$

D.  $S > C > = F \leq H; V < F$

E.  $S > T = O \geq P; V < J = P$

27. Which of the following symbols should be placed in the blank spaces respectively (in the same order from left to right) in order to complete the given expression in such a manner that both ' $D > S$ ' as well as ' $E \leq B$ ' definitely holds true? B \_ A \_ S \_ E \_ D  
 A.  $>, \geq, <, =$  B.  $>, >, \geq, <$  C.  $\geq, \geq, \geq, \leq$   
 D.  $\geq, =, \geq, <$  E. Other than those given as options

28. In which of the following expressions does the expression ' $L = T$ ' definitely hold true as one of the conclusions?

A.  $K \geq L \leq R = P < S \leq T$

B.  $U \geq T \geq M = F \leq A \geq L$

C.  $L \geq C > Q \geq B = N \leq T$

D.  $G \geq L = A < B \leq S \leq T$

E.  $T \geq E = G \geq W = Y \geq L$

29. Which of the following expressions is true if the expression  $P < T < = Q > S > M > = W$  is definitely true?

A.  $W \leq P$  B.  $S < P$  C.  $M > P$  D.  $W < Q$  E.  $T \leq M$

30. Statements:  $Y \leq K < D = S; D < V < O; G \geq D < Q$

Conclusions: i.  $G > V$ , ii.  $Y < Q$

A. Only I is true B. Only II is true C. Either I or II true

D. Neither I nor II is true E. Both I and II are true

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