# FIITJEE NTSE MOCK TEST-1
## for
## Class – X
## Mental Ability Test (MAT)

*Time: 120 Minutes*                                                           *Maximum Marks: 100*

*Please read the instructions carefully.*

<div style="text-align:center">**INSTRUCTIONS**</div>

**A:  General :**

1.  Immediately fill in the particulars on this page of the Test Booklet with Blue/Black Ball point pen.

2.  Use **Blue/Black Ball Point Pen only** for writing particulars of the Answer Sheet. **Use of pencil is strictly prohibited.**

3.  Darken the appropriate bubbles with **HB Pencil** only.

4.  Blank papers, clipboards, log tables, slide rules, calculators, cellular phones, pagers and electronic gadgets in any form are not allowed.

5.  The answer sheet, a machine-gradable Objective Response Sheet (ORS) is provided separately.

6.  Do not Tamper/mutilate the **ORS** or this booklet.

7.  No additional sheets will be provided for rough work

8.  On completion of this test, the candidate must hand over the Answer Sheet to the Invigilator on duty in the Room/Hall. **However, the candidates are allowed to take away this Test Booklet with them.**

**B:  Questions paper format** and **Marking Scheme :**

1.  The question paper consists of *100 questions.*

2.  For each question you will be **awarded 1 marks** if you darken the bubble corresponding to the correct answer and zero mark if no bubbles is darkened. No Negative Mark will be awarded.

**Enrollment No. :** ☐☐☐☐☐☐☐☐☐☐☐☐        **Batch :** _____

**Name :** _____

**Candidate's Signature** _____        **Invigilator's Signature:** _____

1.  One morning after sunrise, Gopal was facing a pole. The shadow of the pole fell exactly to his right. Which direction was he facing ?
    (A)  South              (B)  East              (C)  West              (D)  Data inadequate

2.  E is to the east of C and south of D. B is to the west of D and south of A. In which direction is A with respect to E?
    (A) West              (B) South East              (C) North              (D) North- west

3.  Anup travels 5km towards the west from his office, then travels 4 km towards the north, followed by 5 km towards the west and finally 6 km towards the north. What is the horizontal distance (in km) travelled by him?
    (A) 15              (B) 10              (C) 20              (D) 25

4.  A is 12 m to the north of B. D is 5 m to the west of B and 5 m to the east of C. What is the shortest distance (in m) between A and C?
    (A)  $\sqrt{196}$              (B) $\sqrt{244}$              (C) $\sqrt{248}$              (D) $\sqrt{256}$

5.  Which year will have the same calendar as that of 2013 ?
    (A) 2018              (B) 2017              (C) 2019              (D) 2021

6.  B is to the east of C. A is to the north of C. D is to the west of C and E is to the left of A. where is E with respect to D?
    (A)  North              (B) West              (C)  North-West              (D) Cannot be determined

7.  The reflex angle between the hands of the clock at 10:25 is
    (A) 180°              (B) 192.5°              (C) 195°              (D) 197.5°

8.  A clock is placed such that the hour hand points towards the north- east at 6 p.m. Where does it point at 10:30 p.m?
    (A) North              (B) South              (C) West              (D) East

9.  What is the angle (in degree) between the two hands of a clock at 2:35 a.m.?
    (A) $122\dfrac{1}{2}$              (B) $142\dfrac{1}{2}$              (C) $132\dfrac{1}{2}$              (D) $116\dfrac{1}{2}$

10. How many times do the hands of a clock coincide in a day?
    (A) 22              (B) 20              (C) 21              (D) 23

11. At what time between 9 and 10 O'clock will the hands of a watch be together?
    (A) 45 minutes past 9              (B) 50 minutes past 9
    (C) $49\dfrac{1}{11}$ minutes past 9              (D) $48\dfrac{2}{11}$ minutes past 9

12. At what time between 7:30 and 8:00 will the hands of a clock be at right angles to each other ?
    (A) $7:55\dfrac{6}{11}$              (B) $7:54\dfrac{6}{11}$              (C) $7:54\dfrac{5}{11}$              (D) $7:55\dfrac{5}{11}$

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***Space for rough work***

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**13.** At what time between 1 a. m. and 2 a.m. do the hands of a clock coincide with each other?

(A) $1:05\dfrac{5}{11}$      (B) $1:05\dfrac{6}{11}$      (C) $1:02\dfrac{8}{11}$      (D) $1:12$

**14.** At what time between 7 and 8 O'clock will the hands of a clock be in the same straight line but not together?

(A) $7:05\dfrac{5}{11}$      (B) $8:05\dfrac{5}{11}$      (C) $7:03\dfrac{5}{11}$      (D) None of these

**15.** At what time between 5 p.m and 6 p.m will the hands of a clock be at an angle of 62°?

(A) 5 hours $17\dfrac{2}{11}$ minutes            (B) 5 hours $38\dfrac{6}{11}$ minutes

(C) 5 hours 16 minutes            (D) Both (B) & (C)

**16.** A clock which was set right on 9a.m shows 3:05 p.m instead of 3 p.m on the same day. What time will it show at 6p.m on the next day?

(A) 6:27:30 p.m      (B) 6:15:50 p.m      (C) 6:24: 30 p.m      (D) 6:21: 50 p.m

**17.** A watch which gains uniformly is 2 minutes slow at noon on Monday and 4 minutes, 48 seconds fast at 2 p.m on the following Monday. When was it correct?

(A) 2 p.m on Tuesday      (B) 2 p.m on Wednesday      (C) 3 p.m on Thursday      (D) 1 p.m on Friday

**18.** A function has 2 husbands, 2 wives and 4 daughters. What is the minimum number of females present in the function?

(A) 5      (B) 6      (C) 7      (D) 4

**19.** Find the missing number in the following matrix.

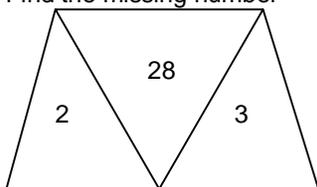| 1 | 2 | 3 |
|-----|-----|-----|
| 11 | 7 | 5 |
| 120 | 45 | ? |

(A) 18      (B) 17      (C) 16      (D) 15

**20.** Find the missing number in the circle.
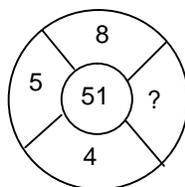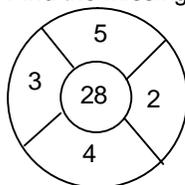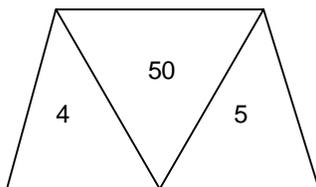


(A) 2      (B) 4      (C) 6      (D) 8

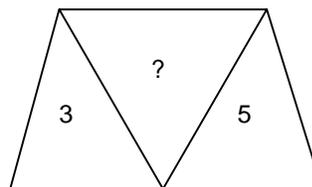***Space for rough work***

**21.** Find the missing number



(A) 35            (B) 49            (C) 53            (D) 40

**22.** If in a certain code language 'CLUB' is written as 'XOFY', 'NOT' is written as 'MLG', then how will 'PUNCTUAL' be written in that code language ?
(A) KFMGXZFO     (B) KFMXGZFO     (C) KFMXGFZO     (D) KFMXGFOZ

**23.** If in a certain code language 'SIMILAR' is written as 'IZORNRH', then how will 'NATURAL' be written in that language ?
(A) OZIFGZM       (B) OZIFGMZ       (C) OZIFZMG       (D) OZIFMZG

**Direction (24-28)** : **Find the missing term in the given series:-**

**24.** 30, 34, 43, 59, 84, 120,?
(A) 169            (B) 148            (C) 153            (D) 176

**25.** 40, 54, 82, ?, 180 ,250
(A) 142            (B) 124            (C) 136            (D) 163

**26.** 122, 213, 340, 509, 726, ?
(A) 942            (B) 997            (C) 919            (D) 950

**27.** 25, 37.5, 56.25, ?, 12.5625
(A) 72.375       (B) 84.375       (C) 92.255       (D) 59.750

**28.** 10, 50, 94, 142, 194, ?
(A) 250            (B) 270            (C) 260            (D) 240

**Directions (29-32) :** Read the following information carefully and then answer the questions given below it.
I. P,Q,R,S,T and U are six members of a family, each of them engaged in a different profession – doctor, lawyer, teacher, engineer, nurse and manager.
II. Each of them remains at home on a different day of the week from Monday to Saturday.
III. The lawyer in the family remains at home on Thursday.
IV. R remains at home on Tuesday.
V. P, a doctor, does not remain at home either on Saturday or Wednesday.
VI. S is neither the doctor nor the teacher and remains at home on Friday
VII. Q is the engineer and T is the manager.

**29.** Which of the following combinations is not correct ?
(A) R-Teacher      (B) Q-Engineer      (C) T-Manager      (D) All correct

**30.** Which of the following combinations is correct ?
(A) Lawyer-Tuesday    (B) Teacher-Wednesday   (C) Manager-Friday    (D) Nurse-Friday

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*Space for rough work*

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**31.** Who is the nurse ?
(A) S            (B) R            (C) U            (D) Data inadequate

**32.** Who among them remains at home on the following day on which R stays at home ?
(A) Q            (B) Q or T            (C) S            (D) Cannot be determined

**Directions (33-35) :** Read the following information carefully and then answer the questions based on them
The capital New Delhi is the seat of Power of the Central Government. It has over 50 renowned colleges to cater to the needs of 10+2 passed out candidates. The competition for admission still remains very tough. Students look for reputation of college, faculty, members, location, hostel facilities, past alumni and so on. Five studious and intelligent students who scored more than 94% in the XII board exam were asked to give their four options out of seven top colleges of Delhi. Their options in order of preference were as follows Student A opted for U, Y, X and W. Student B for Z, V, X and T. Student C wanted to join V, W, Y and U. Student D desired admission in W, U, T and Z. Student E was keen for V, T, Y and X.

**33.** Which pair of students opted for colleges V and X but did not want to go to U and W ?
(A) B and E          (B) A and D          (C) B and C          (D) B and A

**34.** Which pair of students did not opted for college X but both of them opted for college U ?
(A) A and C          (B) B and C          (C) C and D          (D) D and E

**35.** Which student opted for colleges X and Y but did not opt for T and Z ?
(A) D            (B) C            (C) B            (D) A

**36.** On 8th Feb, 2005 it was Tuesday. What was the day of the week on 8th Feb, 2004?
(A) Tuesday        (B) Monday        (C) Sunday        (D) Wednesday

**37.** If Friday falls on 15th of September 2000, what will be the day of 15th of September 2001?
(A) Friday        (B) Saturday        (C) Thursday        (D) Sunday

**Direction (38 - 42) :** In each of the following questions, which character when placed at the sign of interrogation (?) shall complete the given pattern.

**38.**
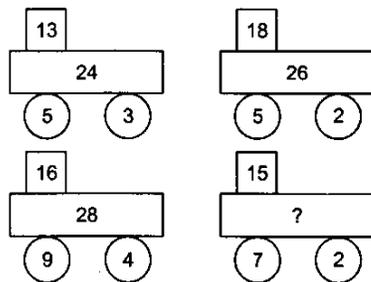


(A) 18          (B) 22          (C) 16          (D) 27

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**39.**

| F | I | O |
|---|---|---|
| A | J | K |
| E | M | ? |

(A) P       (B) R       (C) S       (D) V

**40.**

| 11 | 6 | 8 |
|---|---|---|
| 17 | 12 | ? |
| 25 | 34 | 19 |
| 19 | 28 | 11 |

(A) 13       (B) 15       (C) 16       (D) 9

**41.**

| 1 | 3 | 7 |
|---|---|---|
| 5 | 12 | 14 |
| 25 | ? | 28 |
| 125 | 192 | 56 |

(A) 40       (B) 48       (C) 56       (D) 64

**42.**

| 14 | 28 | 42 |
|---|---|---|
| 2 | 4 | 6 |
| 36 | 112 | 246 |
| 18 | 56 | ? |

(A) 120       (B) 201       (C) 123       (D) 303

**Directions (43-44):** Read the following information carefully and answer the questions given below.
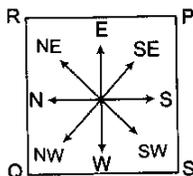


Four security guards P. Q, Rand S have been posted at the four corners of a huge cashew plantations farm as show in the above figure.

**43.** Given the condition that none of the corners should be unnamed and both P and R start moving towards diagonally opposite corners, in which direction should S start moving, so that he occupies a corner by travelling the minimum possible distance?
(A) Clockwise                    (B) Anti-clockwise
(C) Either clockwise or anti-clockwise      (D) None of the above

**44.** Form the original position, P and Q move one arm length clockwise and then cross over to the corner diagonally opposite, R and S move one arm length anti-clockwise and cross over to the corner diagonally opposite. The original setting PSQR has now changed
(A) RSPQ       (B) SRPQ       (C) RQSP       (D) none of these

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***Space for rough work***

**45.** If February 1, 1996 is Wednesday, What day is March 3, 1996 ?
(A) Sunday          (B) Saturday          (C) Tuesday          (D) Wednesday

**46.** Kamal told Vimal, "Yesterday I defeated the only brother of the daughter of my grandmother. "Whom did Kamal defeated?
(A) Father          (B) Son          (C) Brother          (D) Father-in-law

**47.** A and B are brothers, C and D are sisters. A's son is D's brother, then how is B related to C?
(A) Father          (B) Brother          (C) Grandfather          (D) Uncle

**48.** Introducing Shyam, a lady said, 'The father of his father-in-law is my father-in-law'. How is Shyam related to the lady?
(A) Son          (B) Husband          (C) Son-in-law          (D) Father

**49**. D is the son- in-law of B, who is the brother-in-law of A, who is the brother of C. How is A related to B?
(A) Father          (B) Son          (C) Data inadequate          (D) None of these

**50.** Pointing to a lady, Chouhan said, 'She is the only daughter of my father-in-law's wife. How is this lady related to Chouhan?
(A) Mother          (B) Wife          (C) Cousin          (D) Sister

**Directions (Questions 51 – 55):** In each question below is given a statement followed by two assumptions numbered I and II. You have to consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement.
     **Give your answer.**
     (A) if only assumption I is implicit          (B) if only assumption II is implicit
     (C) if either I or II is implicit          (D) if both I and II are implicit

**51.** **Statement:** if you have any problems, bring them to me.
     **Assumptions:**
     I. you have some problems.
     II. I can solve any problem .

**52.** **Statement:** Detergents should be used to clean clothes.
     **Assumptions:**
     I. Detergents form more lather.
     II. Detergents help to dislodge grease and dirt.

**53.** **Statement:** 'I have not received telephone bills for nine months inspite of several complaints'– A telephone customer's letter to the head.
     **Assumptions:**
     I. Every customer has a right to get bills regularly from the telephone company.
     II. The customer's complaints points to defect in the services which is expected to be corrected.

**54.** **Statement:** Beware of dogs, our dogs do not bark, but they are trained to distinguish between genuine guests and intruders.
     **Assumptions:**
     I. Barking dogs bite rarely.
     II. Our dogs could be dangerous for intruders

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**55.** **Statement:** Traffic jams on most of the roads in the city have become a regular feature during monsoon.
**Assumptions:**
I. Material used for road construction cannot withstand the fury of monsoon resulting into innumerable pot holes on the roads.
II. Number of vehicles coming on the roads is much more in monsoon as compared to other seasons.

**Directions (Questions 56 – 58):** In the following questions, one or more statements are given followed by two conclusions (I) and (II). You have to consider the statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follow from the given statements.
Give answer
(A) if only conclusion I follows      (B) if only conclusion II follows
(C) if either I or II follows         (D) if both I and II follows

**56.** **Statement:** This world is neither good nor evil; each man manufactures a world for himself.
**Conclusions:**
I. Some people find this world quite good.
II. Some people find this world quite bad.

**57.** **Statement:** Double your money in five months – An advertisement.
**Conclusions:**
I. The assurance is not genuine.
II. People want their money to grow.

**58.** **Statement:** The use of non – conventional sources of energy will eliminate the energy crisis in the world.
**Conclusions:**
I. Modern technology is gradually replacing the conventional sources of energy.
II. The excessive exploitation of environment has led to the depletion of conventional sources of energy

**59.** What was the day of the week on 28th May, 2006?
(A) Thursday      (B) Friday      (C) Saturday      (D) Sunday

**Directions (60 - 64) :** Read the following information carefully to answer the questions given below.
I. There are six members in a family
II. The members are A, B,C, D, E and F.
III. D is the daughter of F who is the mother of E.
IV. E is the daughter of A
V. A is the son of C
VI. The family consists of one couple who has their parents and their children.
**60.** What relationship do D and E bear to each other ?
(A) Mother and Son            (B) Sister and brother
(C) Sister                    (D) Grandmother and grad daughter
**61.** Who are the male members in the family ?
(A) A, B and D                (B) C and F
(C) A and C                   (D) Cannot be determined
**62.** Which of the following pairs is the parents of the children ?
(A) BF          (B) CF          (C) BC          (D) None of these
**63.** How many female members are there in the family ?
(A) 4           (B) 3           (C) 2           (D) None of these

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*Space for rough work*

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**64.** Which of the following pairs is the parents of the couple ?
(A) CF
(B) AF
(C) BC
(D) AB

**Direction (65-66) :** 'A + B' means that A is the father of B, 'A – B' means that A is the wife of B 'A × B' means that A is the brother of B, and 'A ÷ B' means that A is the daughter of B.

**65.** If 'S ÷ T × U + Z', which of the following is true ?
(A) S is the daughter of Z
(B) Z is the aunt of S
(C) S is the aunt of Z
(D) None of these

**66.** If S – T + Z, then which of the following statements is true ?
(A) S is the mother of Z
(B) Z is the wife of S
(C) S is the aunt of Z
(D) S is the sister of Z

**67.** Z is maternal uncle of Y, X is maternal grandfather of Z. S is grandson of X. How is S related to Y ?
(A) Maternal grandfather
(B) Maternal uncle
(C) Cousin brother
(D) None of these

**68.** Arti and Saurabh are the children of Mr and Mrs Shah. Ritu and Shakti are the children of Mr and Mrs Mehra. Saurabh and Ritu are married to each other and two daughter Mukti and Shruti are born to them. Shakti is married to Rina and two children Subhash and Reshma are born to them. How is Arti related to Shruti ?
(A) Mother
(B) Mother in Law
(C) Sister
(D) Aunt

**69.** In a family, there are seven persons, comprising two married couples, T is the son of M and the grandson of K. M is a widower. M and R are brothers and W is the daughter in law of J, who is the mother of R and the grandmother of 'D'. How is D related to M ?
(A) Son
(B) Son in Law
(C) Nephew of niece
(D) Brother

**70.** In a certain code language, 'pick and choose' is written as 'ko ho po' and 'pick up and come' is written as 'to no ko po'. How is 'pick' witten in that code language ?
(A) ko
(B) po
(C) Either ko or po
(D) Cannot be determined

**71.** 165135 is to 'PEACE' as 1215225 is to
(A) LEAD
(B) LOVE
(C) LOOP
(D) AURA

**72.** Today is Friday, after 126 days, it will be:
(A) Sunday
(B) Tuesday
(C) Friday
(D) Monday

**Direction (73 - 82) :** In each of the questions below are given three statements followed by three conclusions numbered I, II and III. You have to take the given statements to be true even, if they seems to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

**73.** **Statements** : Some carrots are brinjals
: Some brinjals are apples
: All apples are bananas
**Conclusions** I. Some apples are carrots
II. Some bananas are brinjals
III. Some bananas are carrots
(A) only I follows
(B) only II follows
(C) only III follows
(D) either II or III follows

*Space for rough work*

74. **Statements** : All key are locks
    : All locks are bangles
    : All bangles are cars
    **Conclusions** I. Some cars are locks
    II. Some bangles are keys
    III. Some cars are keys

    (A) All follows                              (B) I and II follows
    (C) I and III follows                        (D) II and III follows

75. **Statements** : All fruits are leaves
    : Some leaves are trees
    : No tree is house
    **Conclusions** I. Some houses are fruits
    II. Some trees are fruits
    III. No house is a fruit

    (A) only I follows                           (B) only II follows
    (C) only III follows                         (D) either I or III follows

76. **Statements** : All tables are mirrors
    : Some mirrors are chairs
    : All chairs are glasses
    **Conclusions** I. Some glasses are mirrors
    II. Some chairs are tables
    III. Some mirrors are tables

    (A) I and II follows                         (B) II and III follows
    (C) I and III follows                        (D) all follow

77. **Statements** : All calculator are boxes
    : All boxes are taps
    : Some taps are machines
    **Conclusions** I. Some machines are boxes
    II. Some taps are calculates
    III. Some boxes are calculates

    (A) I and II follows                         (B) I and III follows
    (C) II and III follows                       (D) all follows

78. **Statements** : Some books are papers
    : Some papers are desks
    : Some desks are chairs
    **Conclusions** I. Some books are desks
    II. Some papers are chairs
    III. Some books are chairs

    (A) none follows                             (B) only I follows
    (C) only II follows                          (D) only III follows

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79. **Statements** : Some pots are buckets
    : All buckets are tubs
    : All tubs are drums
    **Conclusions** I. Some drums are pots
    II. All tubs are buckets
    III. Some drums are buckets
    (A) I and II follows       (B) I and III follows
    (C) all follow          (D) II and III follows

80. **Statements** : All pins are bags
    : All chalks are bags
    : All needles are bags
    **Conclusions** I. Some needles are pins
    II. Some chalks are needles
    III. No needle is pin
    (A) only III follows      (B) only I follows
    (C) Either I or III follows    (D) Either I or II and II follows

81. **Statements** : Some buses are trucks
    : Some trucks are boats
    : Some jeeps are trucks
    **Conclusions** I. Some jeeps are buses
    II. Some boats are buses
    III. Some trucks are jeeps
    (A) none follows       (B) only I follows
    (C) only II follows       (D) only III follows

82. **Statements** : All flowers are trees
    : All trees are jungles
    : No jungle is hill
    **Conclusions** I. No flower is hill
    II. No tree is hill
    III. Some jungles are flowers
    (A) All follows        (B) I and II follows
    (C) I and III follow      (D) II and III follows

**Direction (83 - 92) :** Each of the questions below consists of a question and two statements numbered I and II given below. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements.
**Given Answer**
(A) If the data in Statement I alone are sufficient to answer the question, while the data in Statement II alone are not sufficient to answer the question.
(B) If the data in Statement II alone are sufficient to answer the question, while the data in Statement I alone are not sufficient to answer the question.
(C) If the data either in statement I alone or in statement II alone are sufficient to answer the question
(D) If the data given in both the statements I and II together are not sufficient to answer the question

83. What is Sudhir's rank from top in the class of 40 students?
    I. Sudhir's rank is 10 rank below Nandini who is $35^{th}$ from the bottom
    II. Sudhir's rank is 10 rank above Samir who is $24^{th}$ from the top.

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*Space for rough work*

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84. How many children does Sheela have?
    I. Ramila is the only sister of Shyam who is the only son of Sheela
    II. Shyam and Ramila have no more siblings

85. All the four friends, viz. Ali, Kate, Rohan and Sonam who are sitting at the corners of a square table facing the centre. Find Kate's position with respect to Sonam.
    I. Ali sits second to the right of Sonam. Rohan sits to immediate left of Ali.
    II. Kate sits second to the right of Rohan. Ali sits to immediate right of Kate.

86. Five letter A, E, G, N and R are arranged left to right according to certain conditions. Which letter is placed third?
    I. G is placed to the right of A. E is to the immediate right of G. There are only two letter between R and G.
    II. N is exactly between A and G. Neither A nor G is at the extreme end of the arrangement

87. Is X an odd number?
    I. X is multiplied by an odd number then result is an odd number.
    II. X is not divisible by 2.

88. How many marks has Suman scored in the test?
    I. Suman scored two digit marks. Her marks were not in decimals
    II. Suman scored more than 9 marks in the test

89. In which month of the year did Rahul go abroad for a vacation?
    I. Rahul correctly remembers that he went for a vacation in the first half of the year
    II. Rahul's son correctly remembers that they went for vacation after 31$^{st}$ March but before 1$^{st}$ May.

90. How is 'over' written in a code language?
    I. 'Over and again' is written as 'ka ja ha' in that code language
    II. 'Come and go' is written as 'ja pa na' in that code language

91. Who among N, F, P, J and D is the youngest ?
    I. P and J are younger than N and D.
    II. F is younger than N, D and P but older than J

92. B is the brother of D, D is the sister of K, K is the brother of M. How is M related to B?
    I. P is mother of B
    II. H is husband of P

93. On what dates of August 1980 did Monday fall ?
    (A) 4$^{th}$, 11$^{th}$, 18$^{th}$ and 25$^{th}$
    (B) 3$^{rd}$, 10$^{th}$, 17$^{th}$ and 24$^{th}$
    (C) 6$^{th}$, 13$^{th}$, 20$^{th}$ and 27$^{th}$
    (D) 9$^{th}$, 16$^{th}$, 23$^{th}$ and 30$^{th}$

***Space for rough work***

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**Directions (94 to 97) :** In each question below are given some statements followed by some conclusions. You have to take the given statements to be true even if they seem to be at variance from commonly known facts and then decide which of the conclusions logically follows the given statements.

94.  **Statements :**
     Some cherries are jellies.
     All jellies are strawberries
     All cherries are chestnuts.
     **Conclusions:**
     I. all jellies are chestnuts
     II. Some jellies are chestnuts.
     III. Some cherries are strawberry
     IV. All cherries are jellies
     (A) Only III follows    (B) Only I and II follow    (C) Only I and IV follow    (D) Only II and III follow

95.  **Statements :**
     All Lotus are flowers,
     No Lily is a Lotus
     **Conclusions :**
     I. No Lily is flowers
     II. Some Lilies are flowers
     (A) Only I follows    (B) Only II follows    (C) Either I or II follows    (D) Both follow

96.  **Statements :**
     All sugar are salt
     Some powder are sugar
     All powder are mixture
     **Conclusion :**
     I. No powder is salt
     II. Some mixture are salt
     III. Some sugar are mixture
     IV. All mixture are salt
     (A) Only III follows    (B) Only II and III follow    (C) Only II, III and IV follow    (D) Only I, II and III follow

97.  **Statements :**
     Some boys are students
     All students are teenagers
     **Conclusions :**
     I.  All teenagers are students
     II. Some boys are teenagers
     (A) only I follows    (B) Only II follows    (C) Either I or II follows    (D) Both follow

**DIRECTIONS (98 to 100)**: Read the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

98.  **Statements** : Some boxes are hammers.
                    Some hammers are beads.
                    All beads are rings.
     **Conclusion** : I.  Some rings are hammers.    II. Some hammers are boxes.
                    III. Some rings are boxes.
     (A) None follows                    (B) only I follows
     (C) only I and II follows           (D) only II and III follow

*Space for rough work*

99.     **Statements** :   Some blankets are beds.
                          Some pillows are blankets.
                          All beds are pillows.
        **Conclusion** :  I.   Some blankets are pillows        II. Some pillows are beds.
                          III. Some beds are blankets.
        (A) only either I or II follows            (B) only I and either II or III follow
        (C) only III and either I or II follow     (D) All I, II and III follow

100.    **Statements** :   Some bladders are hammers.
                          Some hammers are knives.
                          Some knives are axes.
        **Conclusion** :  I.   Some axes are hammers          II. Some knives are bladders
                          III. Some axes are bladders.
        (A) None follows          (B) only I follows          (C) only II follows          (D) only III follows

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**Space for rough work**

**Answer Key (MAT) NTSE MOCK TEST-1**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1. A | 2. D | 3. B | 4. B | 5. C | 6. D | 7. D | 8. B | 9. C | 10. A |
| 11. C | 12. B | 13. A | 14. A | 15. D | 16. A | 17. B | 18. A | 19. C | 20. A |
| 21. D | 22. C | 23. A | 24. A | 25. B | 26. B | 27. B | 28. A | 29. D | 30. D |
| 31. A | 32. B | 33. A | 34. C | 35. D | 36. C | 37. B | 38. C | 39. B | 40. C |
| 41. B | 42. C | 43. B | 44. C | 45. B | 46. A | 47. D | 48. C | 49. D | 50. B |
| 51. B | 52. B | 53. D | 54. B | 55. A | 56. D | 57. B | 58. D | 59. D | 60. C |
| 61. D | 62. D | 63. A | 64. C | 65. D | 66. A | 67. B | 68. D | 69. C | 70. C |
| 71. B | 72. C | 73. B | 74. A | 75. D | 76. C | 77. C | 78. A | 79. B | 80. C |
| 81. D | 82. A | 83. C | 84. A | 85. C | 86. B | 87. C | 88. D | 89. B | 90. D |
| 91. B | 92. D | 93. A | 94. D | 95. C | 96. B | 97. B | 98. C | 99. D | 100. A |

*Space for rough work*

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