

**NATIONAL MERIT-CUM-MEANS SCHOLARSHIP TEST**

**PART-I**  
**MENTAL ABILITY TEST (MAT)**  
 For Students of Class VIII<sup>th</sup>)  
**MORNING SESSION**

**Series : A**

**Booklet: 180277**

Roll. No 

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Name:.....

**NOTE : DO NOT BREAK THE SEAL UNTIL YOU ARE ASKED FOR THAT.  
 : GO THROUGH THE INSTRUCTIONS CAREFULLY.**

**Time: 90 Minutes**  
**11.00 A.M. to 12.30 P.M.**

**M Max. Marks: 90**

**No. of Questions: 90**

**INSTRUCTIONS**

1. Please write your Roll No. very clearly as provided in your Admit Card. Please see that no block is left unfilled and even zeros appearing in the Roll No. are correctly transferred to the appropriate blocks on the booklet and on the answer sheets.
2. For all subsequent purposes your Roll No. shall remain same as provided in the Admit Card.
3. There are 90 questions of MAT and all questions carry one mark each.
4. Since all the questions are compulsory, do not try to read the whole question paper before beginning to answer it. Begin with the first question and keep on trying one question after another till you finish the part.
5. If you do not know the answer to any question, do not spend much time on it and pass on to the next one. Time permitting, you can come back to the question which you have left in the first instance and try these again.
6. Since the time allotted to the two parts of this question paper is very limited, you should make the best use of it by not spending too much time on one question.
7. No marks shall be awarded to the question if the candidate has marked more than one answer against the question.
8. You have to mark all your responses on a separate response sheet provided with the booklet.
9. Immediately on the commencement of examination check that the question booklet does not have any torn or missing pages. If so, get it replaced by a fresh booklet of the same series.
10. Use only blue or black ball point pen.
11. The Candidates can use blank sheet provided in the question booklet for rough work.
12. The Candidates should remain firmly positioned at their seats till the supervisory staff collects all the response sheets from the center and the center in charge makes an announcement to leave.

**Directions (Q1-Q5):** Pick out from the words given below which would complete the sentence correctly and meaningfully.

Q1) Nowadays why \_\_\_\_\_ people scared of each other.

- a) were                      b) had                      c) are                      d) do

Q2) If the perceptions of two people do not \_\_\_\_\_, there is bound to be problems.

- a) reflect                      b) differ                      c) match                      d) express

Q3) There are \_\_\_\_\_ educational theories that try to explain this fact

- a) one                      b) differing                      c) entertaining                      d) theoretical

Q4) Any problem to be \_\_\_\_\_ needs to be broken down to small pieces

- a) chosen                      b) taught                      c) tackled                      d) posed

Q5) He has \_\_\_\_\_ people visiting him at his house because he fears it will cause discomfort to neighbours.

- a) forbidden                      b) warned                      c) stopped                      d) requested

**Directions (Q6-Q10):** Select the pair of words which are related in same way as the bold words are related to each other

Q6) Angry: ? :: Night : Day

- a) Kind                      b) Helpful                      c) Picased                      d) Loving

Q7) **Bangladesh : Dhaka** :: Pakistan : ?

- a) New Delhi                      b) Islamabad                      c) Karachi                      d) Lahore

Q8) **Import : Export** :: Expenditure : ?

- a) Revenue                      b) Debt                      c) Tax                      d) Deficit

Q9) **Letter : Word** :: Page : ?

- a) Book                      b) Paragraph                      c) Lesson                      d) None of these

Q10) **Sheep : Lamb** :: Dog : ?

- a) Kitten                      b) Puppy                      c) Colt                      d) None of these

**Directions (Q11-Q15):** In each of the following questions, choose which does not belong to the class

Q11) Square, Circle, Rectangle, Triangle, Cube

- a) Cube                      b) Triangle                      c) Circle                      d) Square

Q12) Deer, Bear, Tiger, Wolf, Jackal

- a) Bear                      b) Deer                      c) Wolf                      d) Jackal

Q13) January, June, July, August

- a) August                      b) June                      c) July                      d) January

Q14) Lily, Lotus, Sunflower, Rose, Cauliflower

- a) Lily                      b) Sunflower                      c) Rose                      d) Cauliflower

Q15) Cricket, Tennis, Football, Hockey

- a) Football                      b) Tennis                      c) Cricket                      d) Hockey

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**Directions (Q16-Q20):** Complete the series by inserting missing number.

Q16) 1, 3, \_\_, 7, 9, 11, 13

- a) 5                                  b) 6                                  c) 7                                  d) 8

Q17) 1, 8, 27, \_\_, 125, 216

- a) 64                                  b) 56                                  c) 72                                  d) 40

Q18) 1, 1, 2, 3, 5, 8, \_\_, 21

- a) 11                                  b) 22                                  c) 21                                  d) 20

Q19) 6, 13, 22, 33, 46, \_\_, 78

- a) 60                                  b) 62                                  c) 63                                  d) 61

Q20) 10, 20, 30, 40, \_\_, 60, 70

- a) 40                                  b) 50                                  c) 60                                  d) None of these

**Directions (Q21-Q25):** Choose the correct instrument / relationship

Q21) Barometer is used to measure

- a) Speed                                  b) Pressure                                  c) Mass                                  d) Humidity

Q22) \_\_\_\_\_ is related to cow.

- a) Kennel                                  b) Den                                  c) Shed                                  d) None of these

Q23) \_\_\_\_\_ branch of medical science which deals with eyes is

- a) Neuro                                  b) Ortho                                  c) Ophtho                                  d) None of these

Q24) Cow has a Calf, Dog has \_\_\_\_\_

- a) Puppy                                  b) Larva                                  c) Kitten                                  d) None

Q25) The purity of milk is measured by

- a) Barometer                                  b) Seismograph                                  c) Lactometer                                  d) None of these

**Directions (Q26-Q30):** What letter should be in place of the question mark in the following series?

Q26) ABN, OPC, DEQ, RSF, \_\_\_?

- a) TUG                                  b) GHS                                  c) FGT                                  d) GHT

Q27) abcabcdabcd \_ abcdef

- a) a                                  b) b                                  c) c                                  d) e

Q28) \_ ba \_ ab \_ bab \_ ba \_ ab

- a) abaab                                  b) abbab                                  c) bbaab                                  d) baaaa

Q29) ab \_ b \_ cab \_ bac \_ bc

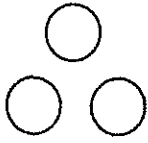
- a) caca                                  b) bbaa                                  c) caaa                                  d) bcac

Q30) aa bbb cccc dd \_ \_ \_ \_ eeeee

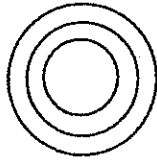
- a) ccc                                  b) ddd                                  c) ded                                  d) None of these

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**Directions (Q31-Q35):** Three classes are given, out of this four responses given below, you are to indicate which figure will best represent the relationship amongst the three classes.



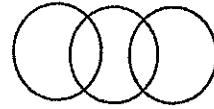
(A)



(B)



(C)



(D)

Q31) Paracetamol, Aspirin, Medicine

a) A

b) B

c) C

d) D

Q32) Pencil, Eraser, Sharpner,

a) A

b) B

c) C

d) D

Q33) Necklace, Ring, Gold

a) A

b) B

c) C

d) D

Q34) Cricket, Volleyball, Tennis

a) A

b) B

c) C

d) D

Q35) Water, Fish, Tank

a) A

b) B

c) C

d) D

**Directions (Q36-Q40):** Find the appropriate word corresponding to the blank space keeping in view the relationship given in a certain way.

Q36) Gas is to cylinder as Toothpaste is to?

a) Teeth

b) Brush

c) Tube

d) Colgate

Q37) Paper is to Pen as Garden is to?

a) Flowers

b) Health

c) Children

d) Spade

Q38) Rubber is to tree as Gold is to?

a) Ornaments

b) Mines

c) Goldsmith

d) Metal

Q39) Words are to Dictionary as Books are to?

a) Volume

b) Author

c) List

d) Catalogue

Q40) Roads are to rivers as vehicles are to ?

a) Fishes

b) Waves

c) Boats

d) Banks

**Directions (Q41-Q45):** Preposition

Q41) The ball is \_\_\_\_\_ your hand.

a) in

b) on

c) about

d) None of these

Q42) The birds are \_\_\_\_\_ the tree.

a) in

b) about

c) at

d) on

Q43) We sat down \_\_\_\_\_ soft cushions.

a) in

b) at

c) on

d) None of these

Q44) The boy is \_\_\_\_\_ the car.

a) in

b) on

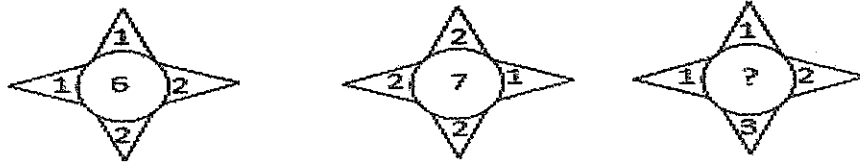
c) at

d) None of these

Q45) We went \_\_\_\_\_ room.

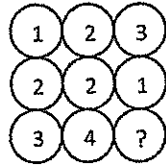
- a) to                      b) into                      c) from                      d) None of these

Q46) Find the missing number



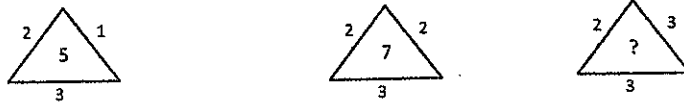
- a) 7                      b) 6                      c) 8                      d) None of these

Q47) Which number will replace the question mark in the following.



- a) 3                      b) 4                      c) 5                      d) None of these

Q48) Which number will replace the question mark in the following.



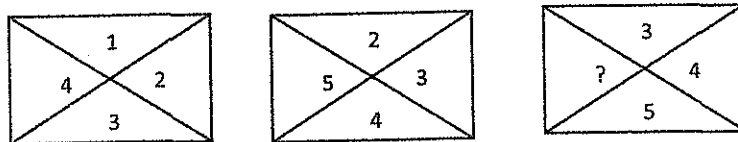
- a) 6                      b) 7                      c) 8                      d) 9

Q49) Which number will replace the question mark in the following.

2	3	5
1	3	4
1	2	?

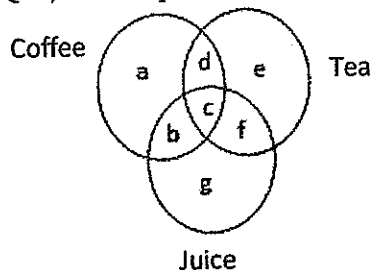
- a) 3                      b) 4                      c) 5                      d) 6

Q50) Which number will replace the question mark in the following.



- a) 4                      b) 5                      c) 6                      d) 7

Directions (Q51-Q54): These questions are based on the following diagram. Answer them below.



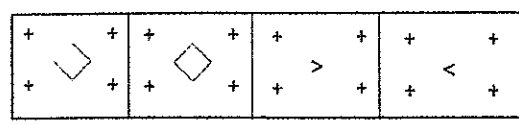
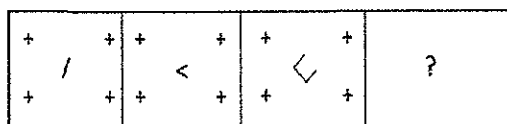
- Q51) Which letter is the set of persons who like all the three Coffee, Tea, Juice.  
 a) a                      b) b                      c) f                      d) c
- Q52) Which letter is the set of persons who like Coffee and Tea but not Juice.  
 a) a                      b) d                      c) e                      d) b
- Q53) Which letter is the set of persons who like Tea but neither Coffee nor Juice.  
 a) e                      b) f                      c) c                      d) a
- Q54) Which letter is the set of persons who like Juice only but neither Coffee nor Tea.  
 a) b                      b) c                      c) g                      d) f
- Q55) If + is  $\times$  and  $\times$  is + what is the value of  $2 \times 3 + 2$   
 a) 7                      b) 6                      c) 8                      d) None of these
- Q56) If  $\div$  is  $\times$  and + is - then what is the value of  $2 \div 3 + 4$  is  
 a) 1                      b) 2                      c) 3                      d) 4
- Q57) 2% of 50 + 2% of 100 is  
 a) 1                      b) 2                      c) 3                      d) None of these
- Q58)  $7942 - 3587 = 6.5 \times ?$   
 a) 640                      b) 760                      c) 670                      d) None of these
- Q59) If one fourth of two fifths of a number is 36, what is the number  
 a) 340                      b) 720                      c) 240                      d) 360
- Q60) If the price of 5 dozens of apples is Rs 285, what will be the price of 34 apples  
 a) 161.50                      b) 171                      c) 142                      d) None of these

**Directions (Q61-Q63):** Mirror images.

- Q61) What is the mirror image of A Alphabet  
 a) A                      b)  $\nabla$                       c)  $\triangleleft$                       d)  $\triangleright$
- Q62) What is the mirror image of B Alphabet  
 a) B                      b)  $\exists$                       c)  $\exists$                       d)  $\exists$
- Q63) What is the mirror image of V Alphabet  
 a)  $\vee$                       b)  $\wedge$                       c)  $<$                       d)  $>$

**Directions (Q64-Q67):** The four problem figures are given along with response figures. Fill the question mark from response given

Q64)



- a) 1                      b) 2                      c) 3                      d) 4

Q65)

1	2	2	3	3	4	
	5		6		7	?
4	3	5	4	6	5	

- a) 1                                      b) 2

3	4	4	5	4	5	4	5
	8		6		8		7
6	5	7	6	7	6	7	6
	1		2		3		4

- c) 3                                      d) 4

Q66)

△	□	□	△	□	○	
□	○	□	○	□	△	?

- a) 1                                      b) 2

□	○	□	○	○	□	△	□
△	□	△	□	△	□	□	○
	1		2		3		4

- c) 3                                      d) 4

Q67)

a	b	c	d	e	f	
d	c	f	e	h	g	?

- a) 1                                      b) 2

g	h	e	f	i	j	i	h
j	i	j	i	i	k	e	g
	1		2		3		4

- c) 3                                      d) 4

**Directions (Q68-Q70):** Choose the word which is least like the other words in the group

Q68) Curd, Butter, Oil, Cheese

- a) Curd                                      b) Oil                                      c) Butter                                      d) Cheese

Q69) Carrot, Potato, Tomato, Ginger

- a) Tomato                                      b) Ginger                                      c) Potato                                      d) Carrot

Q70) Gun, Pistol, Rifle, Knife

- a) Knife                                      b) Pistol                                      c) Rifle                                      d) Gun

**Directions (Q71-Q75):** Each of the following idioms/phrases is followed by four alternatives meaning of which one is correct. Choose the correct alternative which would best describe the meaning of given Idiom/ Phrase.

Q71) To drive home

- a) To find ones roots                                      b) To return to place of rest  
c) Back to original position                                      d) To emphasise

Q72) In black and white

- a) in short                                      b) useless                                      c) in writing                                      d) in full swing

Q73) To beat the air

- a) To act intelligently                                      b) To make great effort  
c) To make every possible effort                                      d) To make efforts that are useless

Q74) A hard nut to crack

- a) Expensive thing                                      b) A difficult problem  
c) A foolish search                                      d) An easy question

Q75) Maiden speech

- a) First speech      b) Long speech      c) Brief speech      d) Emotional speech

**Directions (Q76-Q78):** Arrange the words in logical/meaningful sequence

Q76) 1) Birth      2) Death      3) Marriage      4) Education

- a) 4321      b) 1432      c) 2314      d) 3241

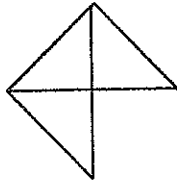
Q77) 1) name      2) is      3) your      4) what

- a) 1234      b) 4123      c) 4231      d) 2314

Q78) 1) Do      2) you      3) live      4) where

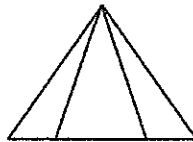
- a) 4123      b) 3214      c) 2314      d) 1234

Q79) How many  $\triangle$ s are there in the figure



- a) 1      b) 2      c) 4      d) 5

Q80) How many  $\triangle$ s are there in the figure



- a) 1      b) 6      c) 5      d) 7

Q81) In the equation given below, replace the signs from the option provided which make the equation correct.

$$3 \div 5 \times 8 + 2 - 10 = 13$$

- a) + and -      b)  $\times$  and  $\div$       c)  $\div$  and -      d)  $\div$  and +

Q82) If  $40 + 10 = 30$ ,  $18 + 8 = 10$  then  $60 + 60 = ?$

- a) 120      b) 3600      c) 0      d) 90

Q83) Pointing to a woman in a photograph, Karan said she is the daughter of the father of the sister of my brother. How is that woman related to Karan.

- a) Daughter      b) Wife      c) Mother      d) Sister

Q84) Raj is the brother of Arsh. Smile is the sister of Sunil. Arsh is the son of Smile. How is Raj related to Smile.

- a) Nephew      b) Son      c) Brother      d) Father



Q85) In a certain code ROAR is written as URDU. How is URDU written in that code

- a) VXDQ                      b) XUGX                      c) ROAR                      d) VSOV

Q86)  $Z=52$  and  $ACT=48$  then BAT will be equal to

- a) 39                              b) 41                              c) 44                              d) 46

Q87) If  $Z=2197$  and  $R=729$ . How would J be written in that code

- a) 216                              b) 124                              c) 512                              d) 125

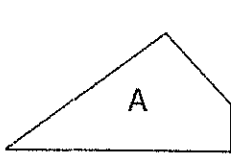
Q88) How many cases do you need if you have to pack 112 pairs of shoes into cases that hold 28 shoes each

- a) 8                                      b) 10                                      c) 9                                      d) 11

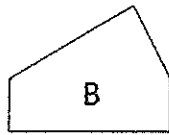
Q89) In a party of 35 people there are twice as many women as children and twice as many children as men. How many of each are there.

- a) 600                                      b) 400                                      c) 500                                      d) 200

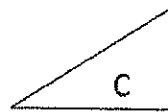
Q90) Which three of the four pieces below can be filled together to form a perfect square.



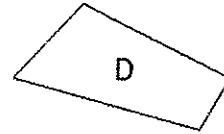
a) CBD



b) ABC



c) ADC



d) ABD