CAREERS 360

NMMS Goa MAT

Question Paper Answer Key 2021-22



MENTAL ABILITY TEST NMMSSE 2021-22

Std. VIII

2) In a certain code language, BEAT is written as YVZG, then what will be the code of MILD?

3) If GOLD is coded as HOME, COME is coded as DONE and CORD is coded as DOSE, how

(4) H

(3) ONWR

(4) ONRW

1) What should come next in the following sequence of letters?

(1) B

(1) NROW

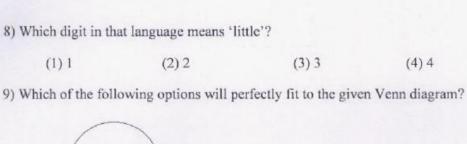
would you code SONS?

BBCBCDBCDEBCDEFBCDEFGBCDEF?

(2) D (3) G

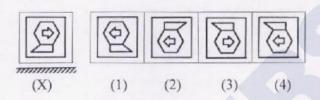
(2) NOWR

(1) TPOT	(2)	TOOT	(3) TOOS	(4) TONT
4) Count the numb	per of triangles	formed in the	given figure.	
(1) 8	(2) 10	(3) 11	(4) 12	
5) How many rect	angles are there	in the given t	ligure?	
(1) 14	(2) 10	(3) 2	(4)6	
			ired chalk', '589' me it in the code that ind	eans 'green coloured flower' and icates 'white' is
(1) 2	(2) 4	(3) 5	(4) 8	
	7 – 8: In a certa nd 637 means '			ht little boy', 145 means 'tall big
7) Which digit in t	hat language me	eans 'bright'?		
(1) 1	(2) 2	(3) 3	(4) 4	
				SI





- (1) Earth, Mountain, Plateaus
- (2) School, Rooms, Books
- (3) Students, Boys, Players
- (4) Flowers, White. Clothes
- 10) In the given question choose the correct water image of Fig.(X) from amongst the four alternatives given along with it:



- 11) Pointing to a photograph, a man said, "I have no brother or sister but that man's father is my father's son". Whose photograph was it?
 - (1) His own
- (2) His son's
- (3) His father's
- (4) His nephew

12) If (a) $8 \times 4 \times 7 = 25$, (b) $7 \times 8 \times 9 = 47$

and (c) $6 \times 5 \times 4 = 26$ then $2 \times 3 \times 6 = ?$

- (1)0
- (2) 9
- (3)12
- (4)18

Directions: Q.No.13 – 14: In a certain code language the signs +, -, \times , \div are used in place of \div , \times , -, + respectively. Following questions are given in that code language. Find the value.

- 13) $9 \times 2 \div 6 + 3 = ?$
 - (1)6
- (2)9
- (3)5
- (4) 8

- 14) $12 \times 4 + 2 = ?$
 - (1)4
- (2) 72
- (3) 10
- (4)50

Sp

15) A clock is so placed that at 12 noon its minute hand points towards north-east. In which direction will its hour hand point at 1.30 pm?

(1) East

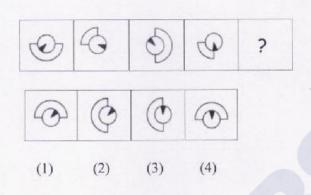
(2) South-East

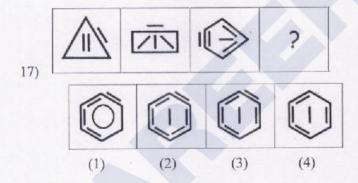
(3) South

(4) North-West

Directions: Q.No.16 - 17: In each question given below there is a Scries of figures with some specific relations between them. Establish the same relationship and select the correct option that completes the given series.

16)





Directions: Q.No.18 – 20: The following questions are based on the number series in which one number is missing. Study the pattern and select the missing number amongst the four alternatives given below each question that will complete the series?

18) 5, 6, 16, 57, ?, 1245

(1)244

(2) 148

(3)296

(4)271

19) 2, 3, 11, 38, 102, ?

(1)402

(2)182

(3)227

(4) 168

Sp

20) 14, 17,	24, 35, ?					
(1)	49	(2) 38	(3) 50	(4) 46		
21) D-6		1 0 G		15.14		
21) Refer t	o the patter	m in the firs	st two rows and	i find the correct nur	nber in place of question n	nark?
4	(121)	7				
5	(169)	8				
6	?	9				
(1) 15	(2)	225	(3) 36	(4)81	
					ime. It takes 10 min to rease usually leave home for	
(1) 8:3	30 am	(2)	8:55am	(3) 8:45am	(4) 8:50am	
				and 4/5 th of the ren w many pages did th	naining on the second day e book contain?	. If th
(1) 300		(2)	500	(3) 320	(4) 350	
24) Find th	e odd one o	out in the gi	ven question.			

25) If Teacher's Day was celebrated on Thursday, on what day will Gandhi Jayanti be celebrated in the same year?

(3) 5625

(1) Tuesday (2) Thursday (3) Wednesday (4) Saturday

(2) 7225

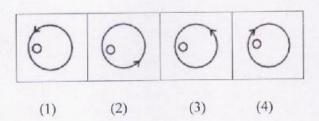
(1) 1025

Sign -

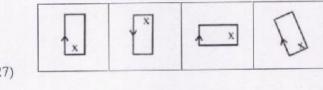
(4) 11025

Directions: In Qn. 26 - 28, From the four figures given below, three are alike in a certain way and one is different. Find the odd figure.

26)



27)



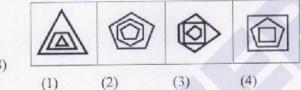
(1)



(3)

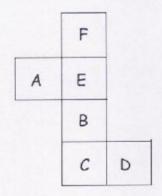


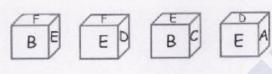
28)



- 29) What is the sum of prime numbers between 0 and 15?
 - (1)27
- (2)41
- (3)29
- (4)39
- 30) In a joint family there are, father and mother, three married sons and one unmarried daughter. Of the sons, two have two daughters each and one has a son. How many female members are there in the family?
 - (1) 3
- (2) 9
- (3) 2
- (4) 6
- 31) If only the first half of the English alphabet is reversed, how many letters will be there between K and R?
 - (1) 6
- (2) 10
- (3) 14
- (4) 16

- 32) While the group photo of a family was taken, the father was found to be sitting to the left of the son and right to the grandfather. Mother was sitting to the right of her daughter but left to the grandfather. Who is occupying the central place?
 - (1) Son
- (2) Grandfather
- (3) Father
- (4) Mother
- 33) Which of the following dice is identical to the unfolded figure given below?





(1)

- (2)
- (3)
- **Direction:** Q.No.34 35: Complete the series by filling letters from the alternative.

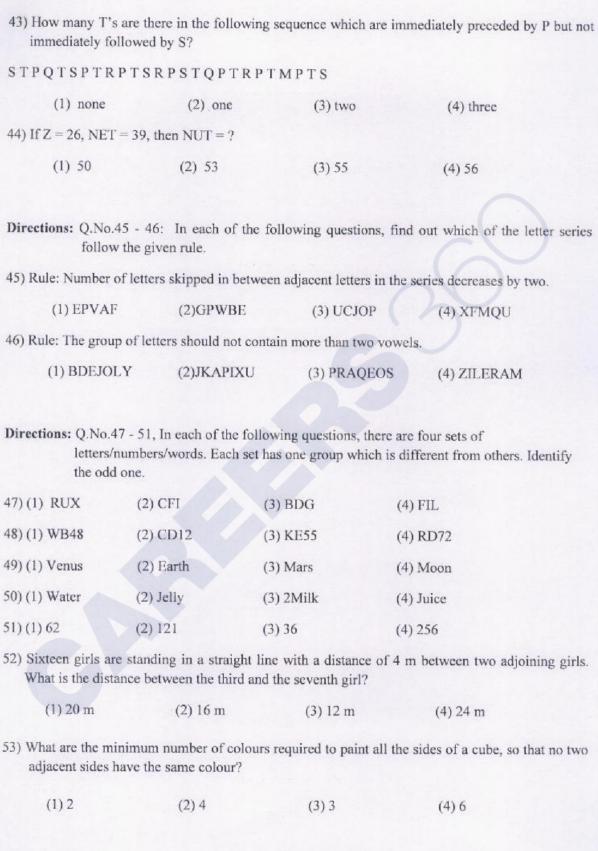
(4)

- 34) _bbca_bcca_ac_a_cb
 - (1) abcba
- (2)acbab
- (3) bacab
- (4) bcaab

- 35) _ o p _ m o _ n _ _ p n m o p _
 - (1) mnpmon
- (2)mpnmop
- (3) mnompn
- (4) mnpomn
- 36) Five birds, a crow, a pigeon, a little pigeon, a big crow and an eagle fly one after other from a tree branch. Big crow flew after the crow but is ahead of the eagle. The pigeon is between the crow and the big crow. The little pigeon is before the crow. Which bird is in the last?
 - (1) Pigeon
- (2) Big crow
- (3) Eagle
- (4) None

St

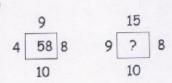
(1) 1-0 1-0 minhs	(2) left, left, left	(3) right, right, right	(4) left, right, left		
(1) left, left, right	(2) ien, ien, ien	(3) 116111, 116119 11611	(1)		
If the first five words the alphabetical order,	in the sentence, Meeta which word will be in t	's mother meets me ma the middle?	ny times" are rearranged in		
(1) Meeta	(2) mother	(3)meets	(4) many		
letters in the	: The words in column corresponding column s given below.	B. Find the correct cod	certain code language using e for each letter and answer		
	Column A (words)	Column B (codes)			
	SEAT	aeiq			
	BALL	ouau			
	CUPS	dhke			
	CAKE	hapq			
		hapq (3) aiuq	(4) u q i o		
How is the word LA	TE coded?		(4) u q i o		
(1) u q a h	TE coded?				
(1) u q a h	TE coded?	(3) a i u q	(4) u q i o (4) a o q h u		
)) The code for the wor	TE coded? (2) u a i e d TABLE is	(3) a i u q			
(1) u q a h (1) The code for the wor (1) u i a o q	TE coded? (2) u a i e d TABLE is	(3) a i u q			
(1) u q a h (1) u q a h (1) u i a o q (1) UP is coded as (1) p k	(2) u a i e d TABLE is (2) q o e h	(3) a i u q a (3) i a u h e	(4) a o q h u (4) d k		
(1) u q a h (1) u i a o q (1) u i a o q (1) u p k (2) How many meaning	(2) u a i e d TABLE is (2) q o e h	(3) a i u q a (3) i a u h e	(4) a o q h u		



A3

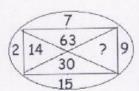
Direction: Q.No.54 – 56: Find the missing number in each of the following by referring to the given pattern.

54)



- (1)63
- (2)78
- (3) 100
- (4)117

55)



- (1)33
- (2) 145
- (3) 135
- (4)18

56)



17 5 16 9 17





- (1)15
- (2)12
- (3)36
- (4)3

57) I am facing South. I turn right and walk 20 m. Then I turn right again and walk 10 m. Then I turn left and walk 10 m and then turning right walk 20 m. Then I turn right again and walk 60 m. In which direction am I from the starting point?

- (1) North
- (2) North-west
- (3) East
- (4) North-east

58) Neeta is older than Jaya by 15 years. After 8 years, the sum of their ages will be 35 years, then what is Neeta's present age?

- (1) 21 years
- (2) 25 years
- (3) 18 years
- (4) 17 years

59) Gopal reaches the entrance of a temple when he climbs up 100 steps, while doing so he offers flowers at every step which are equal to the scrial number of that step. How many flowers he must be having with him before he started climbing?

- (1)4500
- (2)5000
- (3)5050
- (4)5500

Sta

Directions: Q.No.60 - 69: In each of the following questions a set of numbers/ letters/ words are given which is analogous to each other in some way. The third term is given after the mark: which bears a similar relationship to one of the terms given in the options. Find the correct answer that fits in place of (?):

60) 3:11::7:?			
(1) 22	(2) 29	(3) 18	(4) 51
61) 5 : 124 : : 7 : ?			
(1) 125	(2) 248	(3) 342	(4) 343
62) 42 : 56 : : 110 : ?			
(1) 18	(2) 132	(3) 136	(4) 140
63) 149 : 238 : : 159 : ?			
(1) 169	(2) 248	(3) 261	(4) 269
64) AG : IO : : EK : ?			
(1) LR	(2) MS	(3) PV	(4) SY
65) KMF : LLH : : RMS	:?		
(1) SLR	(2) SLU	(3) SSU	(4) SUS
66) ASTN : ZTSO : : MS	SUB:?		
(1) LRRC	(2) LTTA	(3) NTVC	(4) LTTC
67) botany : plants :: ente	omology:?		
(1) snakes	(2) insects	(3) birds	(4) germs
68) pulp: paper: : hemp	: ?		
(1) basket	(2) yarn	(3) rope	(4) cotton
69) hot : oven : : cold : ?			
(1) ice cream	(2) air conditioner	(3) snow	(4) refrigerator
70) In a row of trees, a tr in the row?	ee is 7th from left end an	d 14 th from the righ	nt end. How many trees are there
(1) 18	(2) 19	(3) 20	(4) 21

St

Directions: Q.No.71 - 72: In each of the following questions, find out how many such pairs of letters are there in the given word each of which has as many letters between them in the word as in the English alphabet.

71) BRIGHTER

(1) one

(2) two

(3)three

(4) nil

72) WONDERFUL

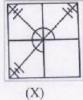
(1) nil

(2) two

(3) three

(4) more than three

73) Given below is an incomplete figure X. Select the correct part from the alternative that will complete the figure.









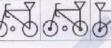
(1) (2) (3)

74) Some of the components are given in figure X. Which figure in the alternatives shows all the components given in figure X?



(X)

(1)



(2)



(4)

75) Find the odd term in the question.

 $(1)\frac{A}{v}$

 $(2)\frac{c}{w}$

 $(3)\frac{F}{V}$

 $(4)\frac{1}{0}$

76) Rearrange the given letters to form a meaningful word which is almost similar in meaning to one of the word given in the alternatives.

PRSDITU

(1) deny

(2) refuse

(3) break

(4) join

Sp

Direction: Q.No.77 - 78. Find the missing number in each of the following by referring to the given pattern

77)

9	15
12	20
6	?

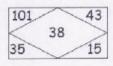
(1) 5

(2) 10

(3)15

(4)21

78)



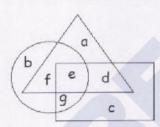
(1)142(2)127

(3)198

56

(4)158

Directions: (Questions 79 to 80): In the following figure, triangle represents qualified doctors, circle represents experienced doctors and the rectangle represents doctors working in villages. Letters are shown in the different sections of the figure. Answer the following:



79) Which letter represents qualified and experienced doctors working in villages?

(1) a

(2) f

(3) e

(4) d

80) Which letter represents qualified but not experienced doctors working outside the villages?

(1) a

(2) e

(3) f

(4) d

Directions: Q.No.81 - 82: In each of the following questions, arrange the given words in the sequence in which they occur in the dictionary and then choose the correct sequence.

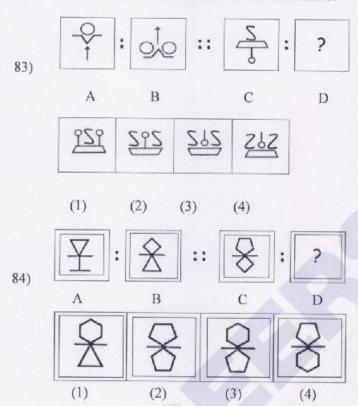
81) 1. Brook

2. Bandit 3. Boisterous 4. Baffle

5. Bright

(1) 2, 4, 3, 1, 5 (2) 2, 4, 3, 5, 1 (3) 4, 2, 3, 1, 5 (4) 4, 2, 3, 5, 1

- 82) 1. Eagle 2. Earth 3. Eager 4. Early 5. Each
 (1) 1, 5, 2, 4, 3 (2) 2, 1, 4, 3, 5 (3)2, 3, 5, 4, 1 (4) 5, 3, 1, 4, 2
- **Directions:** In Qn. 83 84: In each of the following figures. There is some relationship between the figures A and B. The same relationship exists between the figure C and one of the four alternatives. Choose the correct alternative.



85) If 3 is subtracted from the middle digit of each of the following numbers and then the positions of the digits are reversed, which of the following will be the last digit of the middle number after they are arranged in descending order?

589, 362, 554, 371, 442

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

- 86) If the seventh day of a month is three days earlier than Friday, what day will it be on the nineteenth day of the month?
 - (1) Sunday (2) Monday (3) Wednesday (4) Friday
- 87) One evening Raja started to walk towards the Sun. After walking a while, he turned to his right and again to his right. After walking a while he again turned right. In which direction is he facing?

(1) North (2) West (3) South (4) East

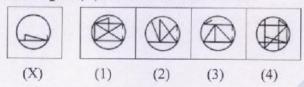
Sh

Directions: (Questions 88 and 89). In the given question choose the correct mirror image of Fig.(X) from amongst the four alternatives given along with it:

88)

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

89) In the given question, the figure given in one of the four alternative figures is embedded in the question figure (X). Find the correct answer.



- 90) Sarita is older than Rekha by 15 years. After 6 years, the sum of their ages will be 33 years. What is Sarita's present age?
 - (1) 18 years
- (2) 21 years
- (3) 24 years
- (4) 20 years





NATIONAL MEANS CUM MERIT SCHOLARSHIP SEARCH EXAM (NMMSSE) 2021-22 MENTAL ABILITY TEST (MAT) Std.VIII

ANSWER KEY

D.O.E. 30/04/2022

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



