NTSE STAGE – I MAT

PAPER-I-A

SMS - 2016 - 17

Time : 45 Minutes

Full Marks : 50

No. of items : 50

INSTRUCTIONS:

- 1. Each question has four probable answers of which one is correct. You have to choose the correct one and blacken your choice in the OMR answer sheet by a black/blue ball point pen.
- 2. For wrong answer, there is no deduction of marks. One mark shall be awarded for each correct response.
- 3. No mark will be awarded for a question if a candidate darkens more than one choice.

ROLL NO.	: _		 	
NAME	:			

NTSE STAGE – I QUESTION PAPER

MAT (SET - C)

Directions (1-4): Find out the alternative which will replace the question (?) mark.

REASON: SFBTPO:: THINK:? 1.

(A) SGHMJ

(B) UIJOL

(C)UHNKI

(D) UJKPM

2. ACFJ: ZXUQ:: EGIN:?

(A)VUSQ

(B)UTRP

(C)VRPM

(D)VTRM

corden: zrogbq::?:pxivro 3.

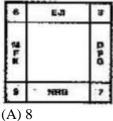
(A) mulmul

(B) sulsul

(C) munmun

(D) srspql

Which number replaces the question mark? 4.



(B) 12

(C) 10

(D) 14

Directions (5-6): Find out the wrong number in the given series.

5. 582,605,588,611,634,617,600

(A) 634

(C) 605

(D) 600

7,8,18,57,228,1165,6996 6.

(A) 8

(B) 18

(C) 57

(D) 228

At 3.40 AM, the hour hand and the minute hand of a clock form an angle of 7.

(A) 120^0

(B) 125^0

(C) 135^0

(D) 130^0

A number consists of two digits. If the digits interchange places and the new number is added to the original 8. number, then the resulting number will definitely be divisible by:

(A) 3

(B) 5

(D) 11

if A = x% of y and B = y% of x, then which of the following is true? 9.

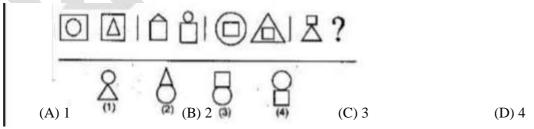
(A) A=B

(B)A < B

(C)A>B

(D) None of these

Look at the sequence of symbols to find the pattern. Select correct pattern at the (?) mark.



Directions (11-13): Complete the series.

gfe_ig_eil_fei_gf_ii

(A) eifgi

(B) figie

(C) ifgie

(D) ifige

12. C,Z,F,X,I,V,L,T,O,?,?

(D) S,R

(D) 5164

Directions (14-16): A,B,C,D,E,F and G are sitting in a row facing North. F is to the immediate right of E. E is 4 th to the right of G. C is the neighbor of B and D. Person who is third to the left of D is at one of the ends.								
14.	Who are to the left of C		(C) C 1 P	(D) D.E.E. 1.4				
	(A) Only B	(B) G, B and D	(C) G and B	(D) D,E,F and A				
15.	Who are the neighbors (A) C and G	of B? (B) C and G	(C) G and F	(D) C and E				
16.	Which of the following statements is not true? (A) E is to the immediate left of D (B) A is at one of the ends (C) G is to the immediate left of B (D) F is second to the right of D							
Directions (17-18): You are given alphabets from A to Z. Find out which of the letter series follows the given rule.								
17.	Rule: The letters are no (A) CEGIKM	ot according to a general ru (B) MORTVX	le. (C) PRTVXZ	(D) ACEGIK				
18.	Rule: Number of letter (A) EIMQV	s skipped in between adjace (B) FIMRX	ent letter in the series is od (C) BDHLR	d. (D) MPRUX				
Directions (19-20): In the following diagram rectangle represents men, triangle represents educated, circle represents urban and square represents government employees. A								
19.	Which one of the follo (A) 9	wing number represents the (B) 5	e educated men but not urb (C) 4	an? (D) 11				
20.	Which one of the follo (A) 7	wing represents women wh (B) 13	to are urban as well as gove (C) 10	ernment employee? (D) 6				
21.	four positions of a die * (star)?	are shown. Which symbol of	or number will be on the fa	ce opposite to the face with symbol				
	(A) @		(C) 8	(D) +				
22.	Two positions of a die	are shown. Which digit wil	ll appear on the face oppos	ite to the face with number 4?				
	(A) 3 5	(B) 5	(C) 6	(D) 2				

(C) R,R

(C) 4856

(A) O,P

(A) 4467

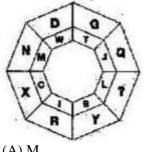
13.

5824,5242,?,4247,3823

(B) P,Q

(B) 4718

23. Which letter represents the question mark?



(A) M

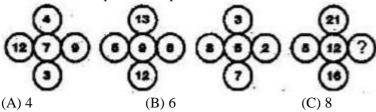
(B) O

(C) Q

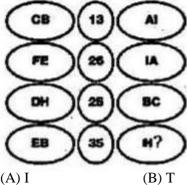
(D) R

(D) 12

24. Which number replaces the question mark?



25. Which letter replaces the question mark?



(A) I

(C) R

(D) G

if A3P means A is the mother of P; A4P means A is the brother of P; A9P means A is the husband of P and A5P means A is the daughter of P, then which of the following means that K is the mother in law of M?

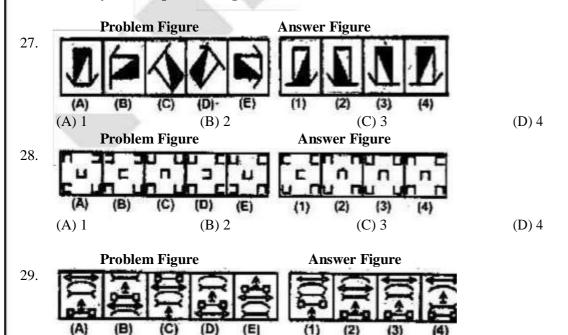
(A) M9N3K4J

(B) M9N5K3J

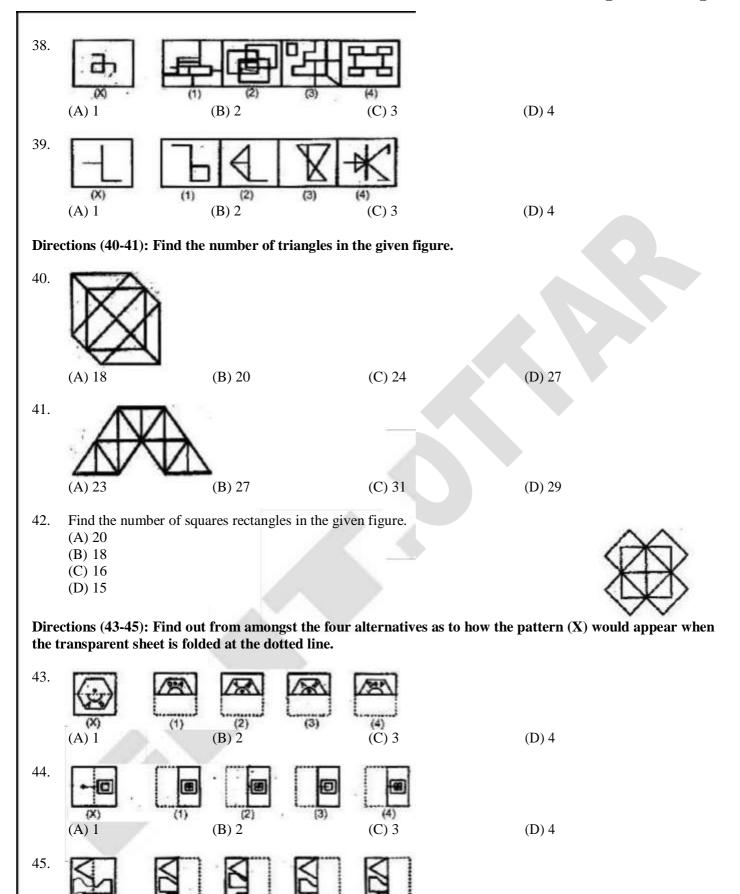
(C) K5J9M3N

(D) K3J94M

Directions (27-29): Select a figure form amongst the Answer figures which will continue the same series as established by the five problem Figures.



(A) 1 (B) 2 (C) 3 (D) 4Directions (30-32): Choose the figure which is different from the rest 30 (C)3(D) 431. (A) 1(B) 2(C) 3 (D)432. (B) 2(A) 1(C)3(D) 4 Directions (33-34): Choose the correct mirror image of the given figure (x) from amongst the four alternatives. 33. (B) 2(C) 3(D) 4 34. (2)(B) 2(A) 1 (C)3(D) 435. 'peslligen' means 'basketball court' 'ligenstrisi'means 'courtroom' 'oltaganti'means 'placementtest' Which word could mean "guest room"? (A) peslstrisi (B) vosefstrisi (C) gantipes1 (D) oltastrisi 'mallonpiml' means 'blue light' 36. 'mallontifl' means 'blueberry' 'arpantifl' means 'raspberry' Which word could mean "lighthouse" (A) tiflmallon (B) pimlarpan (C) mallonarpan (D) pimldoken 37. 'jalkamofti' means 'happy birthday' 'moftihoze' means 'birthday party' 'mentogunn' means 'goodness' Which word could mean "happiness"? (B) mentohoze (C) moftihoze (A) jalkagunn (D) hozemento

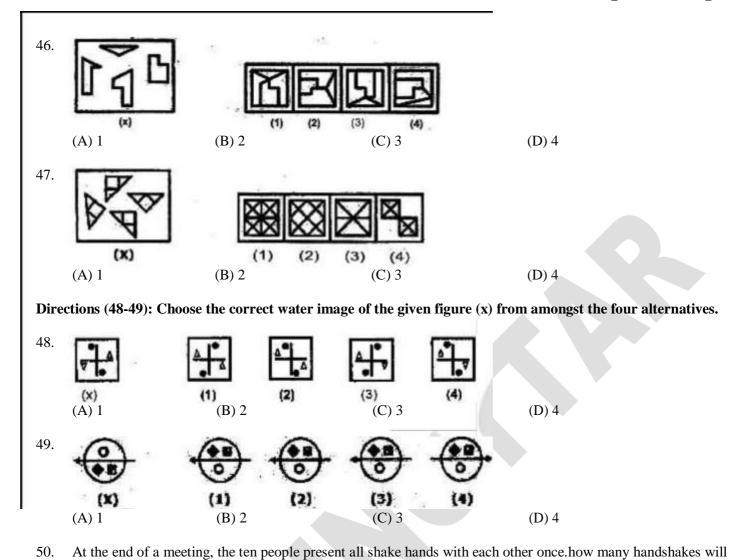


Directions (46-47): Find out which of the figures (1),(2),(3) and (4) can be formed from the pieces given in figure (X).

(C)3

(D) 4

(B) 2



(C)9

(D) 25

there be altogether?

(B) 45

(A) 10

NTSE STAGE – I_MAT (SET – C) DATE: 06.11.2016 <u>ANSWERS</u>

1.	В	11. C	21. C	31. D	41. D
2.	D	12. C	22. A	32. C	42. A
3.	В	13. B	23. B	33. C	43. B
4.	В	14. C	24. B	34. A	44. D
5.	Α	15. B	25. D	35. B	45. C
6.	D	16. A	26. B	36. D	46. C
7.	D	17. B	27. C	37. A	47. B
8.	D	18. C	28. A	38. B	48. C
9.	Α	19. D	29. C	39. B	49. A
10.	С	20. C	30. A	40. C	50. B



HINTS & SOLUTION

and so on.

- 1. B
- 2. D

Opposite letters

3. B

$$-3, +3, -3, +3$$

4. B

$$E \rightarrow 5 \qquad M \rightarrow 13$$

$$J \rightarrow 10 \qquad F \rightarrow 6$$

$$I \rightarrow 5 \qquad K \rightarrow 11$$

$$24 \qquad 30$$

5. A

6. D

57×4+4=232

7. D

$$\theta = {11 \atop \times 40} -30 \times 3 = 130^{\circ} 2$$

- 8. D
- 9. A

$$A = \frac{X}{100} \times y$$

$$B = {}^{y}_{100} \times x$$

- 10. C
- 11. C gfeii|gfeii|gfeii|gf<u>e</u>ii
- 12. C
- 13. B

58245242 4718 582424471

52424718 4247

14. C

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15.
    В
16. A
     For Q. 14 to 16: <u>G B C D E F A</u>
17.
18.
     С
     D
19.
     С
20.
21.
     С
22.
     Α
23.
     В
24.
     В
     Sum =
           middle
       4
25.
     D
      CB=32
      AI= 19
         23
26.
     В
27.
     С
28.
     Α
29.
     С
30. A
31.
     D
32.
     С
     С
33.
34.
     Α
35.
     В
36.
     D
37.
     Α
38.
     В
39.
     В
40.
     С
41.
     D
42.
     Α
     В
43.
44.
     D
45.
     C
46.
     C
47.
     В
48.
     C
49.
     Α
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50.

В

10 $C_2 = {}^{10} \times {}^9 = 45.2$