## NTSE STAGE-I MAIN EXAM QUESTION PAPER

## **PART-I : MENTAL ABILITY**

## Time: 120 Mins

## Max. Marks: 100

**Direction:** In question nos. **1** to **12** there is missing number shown by question mark (?). This term is one of the four alternatives given below the questions. Choose the correct alternative.

1.	5, 6, 10, 19, 35, ? (A) 55	(B) 60	(C) 51	(D) 71
2.	6, 13, 29, 63, ? (A) 126	(B) 113	(C) 128	(D) 133
3.	4, 8, 16, 32, 64, 12 (A) 256	8, ? (B) 228	(C) 512	(D) 192
4.	3, 5, 9, 17, 33, 65, (A) 130	? (B) 98	(C) 129	(D) 132
5.	3, 6, 11, 18, 27, ? (A) 48	(B) 38	(C) 36	(D) 56
6.	2, 4, 12, 48, 240, ? (A) 1440	(B) 1200	(C) 480	(D) 960
7.	15, 18, 111, 114, 1 (A) 125	17, ? (B) 123	(C) 121	(D) 120
8.	33, 44, 35, ? , 37, 4 (A) 36	l6, 39, 47 (B) 47	(C) 45	(D) 48
9.	41, 42, 50, 77, 141 (A) 248	, ? (B) 266	(C) 423	(D) 218
10.	4, 6, 10, 16, 24, ? (A) 30	(B) 40	(C) 36	(D) 34
11.	B, D, G, I, ? , N (A) L	(B) M	(C) K	(D) J
12.	A, CD, GHI, ?, UVV (A) NOPQ	VXY (B) MNO	(C) MNOP	(D) NOPQ

**Directions :** In question nos. **13** to **22** there is a certain relationship between two given words on left side of : : symbol and one word is given on right hand side of : : and a question mark. Choose the correct alternative from options which shows the same relationship between these pairs of words as between the pair of words given on left hand side of : : symbol.

13. Film : Producer : : Book :	?		
(A) Director (B) P		(C) Editor	(D) Writer
14. Clock : Time : : Theremor (A) Heat (B) R		(C) Energy	(D) Temperature
15. Ink : Pen : : Blood : ? (A) Vein (B) D	onation (	(C) Accident	(D) Doctor
16. Ship : Captain : : Aeroplar (A) Air-hostess (B) R		(C) Pilot	(D) Airport
17. Bat : Ball : : Badminton : ? (A) Ball (B) Ta		(C) Court	(D) Shuttle-cock
18. Mass : Kilogram : : Length (A) Volt (B) K		(C) Meter	(D) Ampere
19. Country : President : : Sta (A) Chief Minister (B) G		(C) Primer Minister	(D) Mayor
20. Day : Night : : Positive : ? (A) Negative (B) S		(C) Moon	(D) Number
21. BPR : DRT : : DMP : ? (A) ENP (B) E	OP (	(C) FOR	(D) FNQ
22. CLP : DOR : : JPT : ? (A) KQU (B) IN	MS (	(C) LQV	(D) KSV
23. Bread is related to wheat (A) Fire (B) C	-	y as Brick is related (C) Cement	to (D) Smoke
<ul><li>24. Accident is related to care</li><li>(A) Treatment</li><li>(C) Absence of Sanitation</li></ul>	(	ame way as Diseas (B) Medicine (D) Doctor	e is related to
25. Choose the odd one out f (A) Sun (B) M	•	(C) Earth	(D) Star
26. Choose the odd one out f (A) Tomato (B) M	•	(C) Banana	(D) Apple
27. Choose the odd one out f (A) Teacher (B) O	•	(C) Student	(D) Class
28. Find the odd term. (A) 27 (B) 25	5 (	(C) 16	(D) 9
29. Find the odd one out. (A) Solid (B) Li	iquid (	(C) Gas	(D) Water

[2]

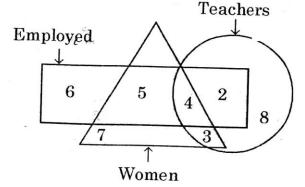
		Question Paper	[3]
30.	Choose the odd one out. (A) Ear (B) Eye	(C) Nose	(D) Throat
31.	In a language, POPULAR is coded (A) FAMOSU (B) FAMOUS	as ONOTKZQ which v (C) FASOUM	word would be coded as GBNPVT ? (D) FOSAUM
32.	In a certain code SIKKIN is written (A) SQBHOHOH (B) UQBJOHH		AINING written in that code ? F (D) UQBJOHOH
33.	If Z = 52, and ACT = 48, then TAB (A) 46 (B) 44	will be equal to - (C) 41	(D) 39
34.		is coded as HCMAIPN	NO, how is POSITIVE coded in that
	language ? (A) OPISITEV (B) POISITEV	(C) OPSIITEV	(D) OPISTIVE
35.			vellow', 'yellow' is called 'water' and
	'water' is called 'pink', then what is (A) Blue (B) Yellow	(C) Pink	y ? (D) Sky
36.	Introducing a person to her husba my grandfather". How is the woma (A) Mother (B) Sister		s brother's father is the only son of n ? (D) Aunt
	<b>Directions : (Question 37 and 38</b> (i) A + B means A is the son of B; (ii) A - B means A is the wife of B; (iii) A $\times$ B means A is the brother of (iv) A $\div$ B means A is the mother of (v) A = B means A is the sister of B	f В; f В;	
37.	What does P + R – Q means ? (A) Q is the son of P (C) Q is the father of P	(B) Q is the brot (D) Q is the unc	
38.	What does P = R + Q means ? (A) P is the daughter of Q (C) P is the niece of Q	(B) P is the aun (D) P is the siste	
39.		e tall while others are	A and B are from Gwalior, while the e short. A, C and D are girls while (D) F
40.	Nitin ranks fifteen in a class of 39. (A) 23 (B) 24	What is his rank from (C) 25	the last ? (D) 26
	<b>Direction :</b> Study the following nu to <b>43</b> .	mber sequence and a	answer the Questions Nos. from 41
41.	How many pairs of successive nun (A) Five (B) Six	nbers having differenc (C) Seven	e of 2 ? (D) Eight

- 42. Figures which have frequency equal to 2 are from following -(A) 1, 2, 3 (B) 2, 4, 7 (C) 4, 5, 6 (D) 5, 6, 8
- 43. How many numbers are in sequence which are written twice successively ? (A) Three (B) Four (C) Five (D) Six
- 44. In the numbers from 100 to 1000, how many times digit 1 comes at the ten's place ? (A) 9 (B) 10 (C) 90 (D) 900
- 45. If the numbers from 5 to 75, which are exactly divisible by 5 are arranged in descending order, which number would come at the 12<sup>th</sup> place from the bottom ?
  (A) 45
  (B) 50
  (C) 55
  (D) 60

**Direction :-** For Question Nos. **46** to **50**. Each of the questions from **46** to **50** contains three elements. These elements may or may not have inter linkage. Each group of the elements fit into one of the diagram given in (P), (Q), (R) and (S). You have to indicate the group of elements which correctly fits into

		(P) (Q)	) (R)	(S)
46.	Fruit, Apple, Mango (A) P	) (B) Q	(C) R	(D) S
47.	Carrot, Food, Vege (A) P	tables (B) Q	(C) R	(D) S
48.	Traveller, Train, Bu (A) P	s (B) Q	(C) R	(D) S
49.	Author, Lawyer, Sir (A) P	nger (B) Q	(C) R	(D) S
50.	Truck, Ship, Goods (A) P	(B) Q	(C) R	(D) S

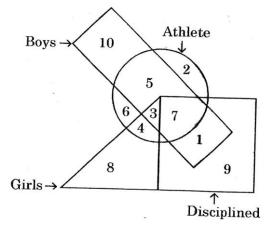
Direction: Study the following figure and choose the correct for questions from 51 to 53.



[4]

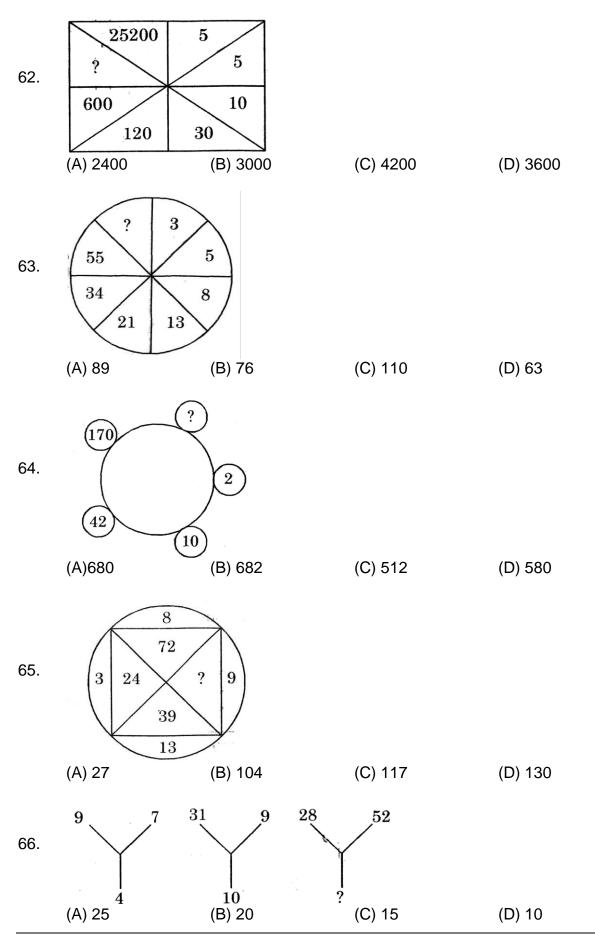
	Question Paper			
51.	Number of women teachers who are employed ?			
	(A) 6	(B) 5	(C) 4	(D) 3
52.	Number of teacher, who are not employed ?			
	(A) 8	(B) 7	(C) 6	(D) 5
53.	Number of women who are not teachers ?			
	(A) 7	(B) 9	(C) 10	(D) 12

Direction:- Study the following diagram and choose the correct for questions from 54 to 55.



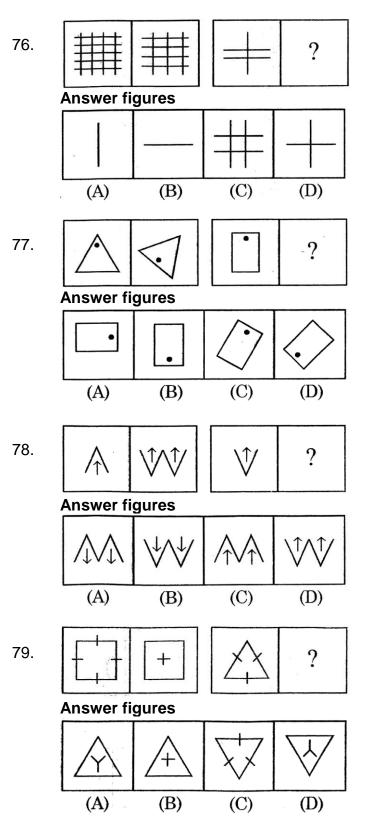
54.	Number of boys w (A) 1	ho are athlete and ar (B) 7	re disciplined ? (C) 3	(D) 5	
55.	Number of girls wh (A) 6	no are not athlete ? (B) 7	(C) 8	(D) 9	
56.	-	outh-West and then <sup>°</sup> clockwise. In which (B) East		anticlockwise direction and then ng now ? (D) North	
57.		) meters again she inal position?	-	20 meters, then again she turns is 20 meters. How many meters (D) zero meter	
	(7) 10 11	(2) 00 11	(0) 20 111		
58.	lf '+' means '÷', '÷' (A) – 43.5	means '–', '–' means (B) 18	s '×' and '×' means '+ (C) 11	-' then 15 + 3 ÷ 2 − 5 × 12 = ? (D) 7	
59.	If 'Q' means ''add'' to '', 'K' means ''multiply by'', 'S' means ''subtract from'' and 'L' means ''divide by'' then, 2 0 L 2 Q 3 K 7 S 8 = ?				
	(A) 3	(B) 23	(C) 22	(D) 39	
60.	son. The son's age	e is		k, he was 3 times as old as his	
	(A) 5	(B) 10	(C) 15	(D) 20	
61.	Today is Rakesh's birthday. Two years from today he will be thrice as old as he was 10 years ago. How old is Rakesh today?				
	(A) 14	(B) 15	(C) 16	(D) 25	

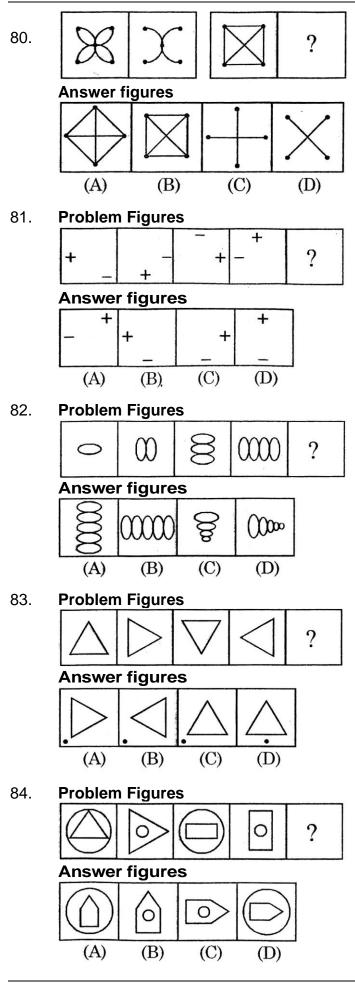
**Direction :** Find the missing number in each of the following question from **62** to **66** and choose the correct options.

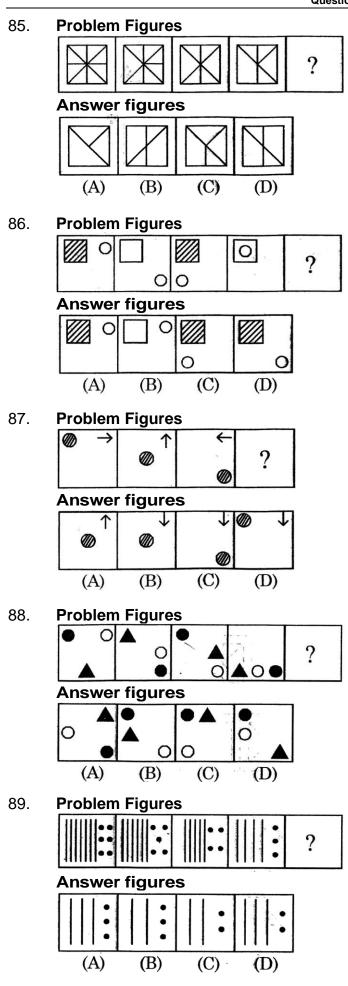


		Que	stion Paper	[7]
67.	Calendar for 2016 (A) 2021	will serve also for ye (B) 2020	ar (C) 2022	(D) 2023
68.	Number of times th (A) 22	e hands of clock are (B) 24	e in a straight line in 2 (C) 42	24 hours is (D) 44
69.	Find the number w (A) 7	hich when added to (B) 8	itself 15 times gives (C) 9	144. (D) 10
70.	• • •			rs are there to participate in an per of coaches in the group. (D) 17
		Question Nos. <b>71</b> to ce and choose the c	•	ords given in each question in
71.	(1) Word (4) Letters (A) (4), (5), (2), (3), (C) (4), (2), (5), (1),		<ul> <li>(3) Sentence</li> <li>(B) (4), (1), (5), (3),</li> <li>(D) (4), (1), (5), (2)</li> </ul>	
72.	(1) Police (4) Judge (A) (1), (2), (3), (4), (C) (3), (1), (4), (5),		(3) Crime (B) (3), (1), (2), (5), (D) (1), (3), (5), (4)	
73.	(1) Poverty (4) Unemployment (A) (2), (1), (4), (3), (C) (2), (4), (5), (1),	(5)	<ul> <li>(3) Death</li> <li>(B) (1), (2), (4), (5)</li> <li>(D) (2), (4), (1), (5)</li> </ul>	
74.	(1) Leaf (4) Root (A) (4), (1), (3), (5), (C) (4), (3), (5), (1),		(3) Stem (B) (4), (3), (1), (5), (D) (3), (5), (1), (2)	
75.	<ul> <li>(1) Nation</li> <li>(4) District</li> <li>(A) (2), (3), (4), (5),</li> <li>(C) (3), (2), (5), (4),</li> </ul>		(3) City (B) (2), (3), (5), (4), (D) (5), (4), (3), (1)	

**Direction :** From question Nos. **76** to **80**, study and analysis the figures and identify the rule which they follow. Choose the correct option for ? place.

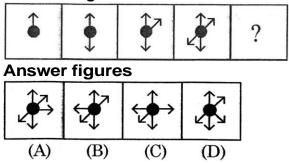




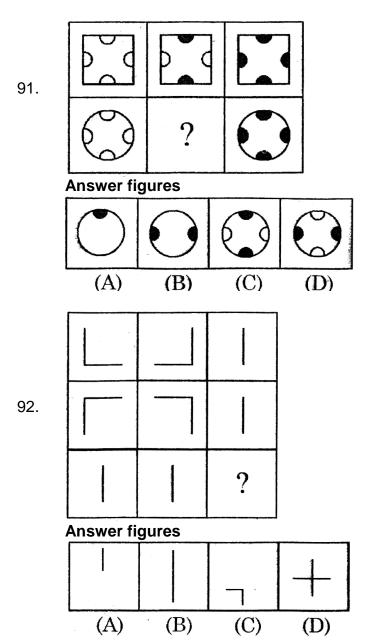


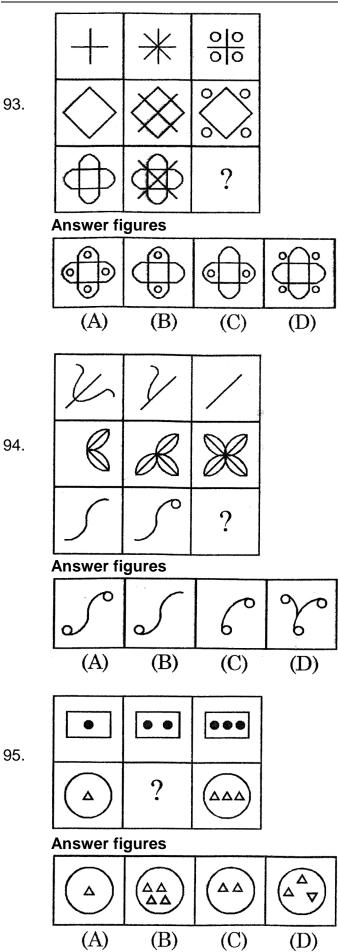
[10]

90. Problem Figures



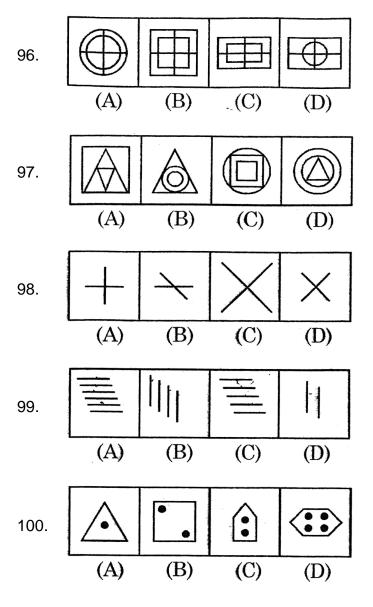
**Direction :** From question Nos. **91** to **95**, complete the figures by choosing appropriate figure from **answer figures**.





[12]

Direction : Choose the odd figure out from the figures in Question number 96 to 100.



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