

NTSE – 2018

Total Time
90 Minutes

PART - 1

Total Marks
100

Exam Date : 04/11/2018

Q. Booklet No.

143762

SEAL SEAL SEAL

SEAT NO.

1	4	3	7	6	2
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INSTRUCTION FOR STUDENTS

Please read the following instruction carefully, and then answer the question on OMR answer sheet.

1. This paper contains PART-1 (Mental Ability Test) questions.

Part	Part Name	Que.No.	Time	Marks
1	MENTAL ABILITY TEST (MAT)	1 To 100	90 Minutes	100

2. This section will be 90 minutes.
3. All questions are compulsory.
4. The blank pages are given in this question booklet for rough work.
5. You must have to submit the OMR Sheet to the invigilator on completion the examination.

PART-1 : MENTAL ABILITY TEST (MAT)

Instruction: In each of the following question no.1 to 10, a number series is given with missing of one term. Choose the correct alternative that will continue the same pattern and replace the question mark (?) in the given series.

1	2, 3, 5, 9, 17, ? <i>+1, +2, +4, +8</i>	(A) 34	(B) 31	(C) 32	(D) 33
2	2, 7, 12, 17, ?, 27	(A) 18	(B) 22	(C) 19	(D) 23
3	11, 121, 1331, ?	(A) 14641	(B) 14411	(C) 14141	(D) 14441
4	656, 432, 320, 264, 236, ? <i>100, 80, 5</i>	(A) 229	(B) 232	(C) 222	(D) 223
5	3, 19, 97, 391, ?, 2359 <i>10, 3</i>	(A) 1177	(B) 1084	(C) 1711	(D) 1958
6	2, 7, 24, 77, ? <i>5, 17, 49</i>	(A) 1335	(B) 249	(C) 283	(D) 238
7	11, 5, 13, 10, 15, 15, 17, ?, ?	(A) 5, 11	(B) 20, 19	(C) 19, 21	(D) 19, 20
8	1331, 2197, 4913, 6859, ?, 24389 <i>121, 1301, 104, 12</i>	(A) 13824	(B) 9261	(C) 12167	(D) 15625
9	97, 86, 99, 88, 101, ?, ? <i>103</i>	(A) 90, 103	(B) 88, 99	(C) 121, 108	(D) 114, 103
10	77, 49, 36, 18, ?	(A) 10	(B) 12	(C) 8	(D) 16





Instruction: In question no.11 to 20, figures are given with question mark (?). Complete the figure replacing question mark (?) with suitable number logically.



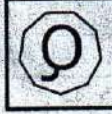



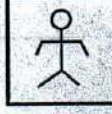
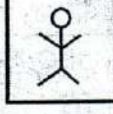
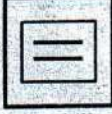

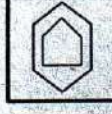
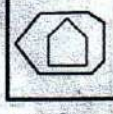





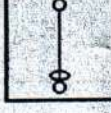
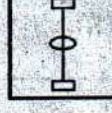
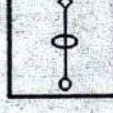

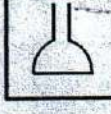

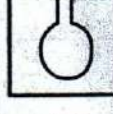






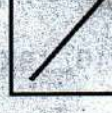

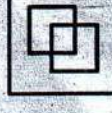
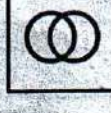
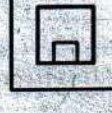

11	How many line segments are there in the given figure ?	
✓	(A) 12 (B) 13 (C) 14 (D) 15	
12	How many line segments are there in the given figure ?	
✓	(A) 19 (B) 18 (C) 17 (D) 16	
13	How many triangles are there in the given figure ?	
✓	(A) 26 (B) 22 (C) 18 (D) 12	
14	How many triangles are there in the given figure ?	
✓	(A) 28 (B) 24 (C) 14 (D) 10	
15	How many triangles are there in the given figure ?	
✓	(A) 29 (B) 23 (C) 19 (D) none of these	
16	How many squares are there in the given figure ?	
✓	(A) 16 (B) 17 (C) 12 (D) 13	
17	How many squares are there in the given figure ?	
✓	(A) 11 (B) 21 (C) 24 (D) 26	
Answer question no. 18 to 20 on the basis of given figure.		
18	How many line segments are there in the given figure ?	
✓	(A) 33 (B) 13 (C) 36 (D) 21	
19	How many triangles are there in the given figure ?	
✓	(A) 12 (B) 16 (C) 22 (D) 24	
20	How many squares are there in the given figure ?	
✓	(A) 5 (B) 6 (C) 7 (D) 8	

Instruction: In question no.21 to 30, English alphabets are given digital number/code. Using them, find the correct digital number/code for given English word by choosing the correct option given below.

21	B, F, J, N, R, V, Z, D, H, L, ?	(A) M	(B) O	(C) P	(D) T
22	ABC, EFG, JKL, PQ?	(A) R	(B) S	(C) T	(D) U
23	DD, jji, PP, vvv, B?	(A) BB	(B) B	(C) C	(D) cc
24	AHL, ?, CFJ, DEI	(A) BGK	(B) BKG	(C) GKB	(D) GBK
25	R, A, M, E, S, H, H, S, E, M, A, ?	(A) Z	(B) Y	(C) R	(D) W
26	A, C, F, J, O, ?, B	(A) I	(B) H	(C) U	(D) D
27	$\frac{A^4}{4}, \frac{D^4}{9}, \frac{H^6}{15}, \frac{M^3}{22}, ?$	(A) $\frac{R}{30}$	(B) $\frac{Q}{31}$	(C) $\frac{Q}{30}$	(D) $\frac{S}{30}$
28	LU <u>B</u> TUPLUBTU <u>P</u> LUBT <u>U</u> <u>P</u> LUBTUP	(A) BPUL	(B) BUPL	(C) LBPU	(D) PBUL
29	KM5, IP8, GS11, EV14, ?	(A) BY17	(B) BX17	(C) CY17	(D) CY18
30	ABC, 6, EFG, 210, IJK, ?	(A) 1000	(B) 190	(C) 999	(D) 990

Instruction: Four figures are given in question no.31 to 40. One of the figure differs from the rest. Find the figure which is differ from others.

31	   	(A)	(B)	(C)	(D)
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32	 (A)	<i>B</i>  (B)	<i>C</i>  (C)	 (D)
33	 (A)	 (B)	 (C)	 (D)
34	 (A)	 (B)	 (C)	 (D)
35	 (A)	 (B)	 (C)	 (D)
36	 (A)	 (B)	 (C)	 (D)
37	 (A)	 (B)	 (C)	 (D)
38	 (A)	 (B)	 (C)	 (D)
39	 (A)	 (B)	 (C)	 (D)
40	 (A)	 (B)	 (C)	 (D)


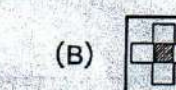





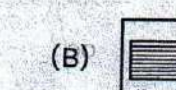




Instruction: Four options are given in question no.51 to 60. One of the options differs from the rest. Find out that different option.

51	(A) Iron	(B) Silver	(C) Gold	(D) Brass
52	(A) cotton - tea	(B) milk : card	(C) grapes : wine	(D) bamboo: paper
53	(A) 6023	(B) 7202	(C) 4025	(D) 5061
54	(A) Writer	(B) Publisher	(C) Poet	(D) Novelist
55	(A) Violin	(B) Sitar	(C) Flute	(D) Veena
56	(A) Conclusion	(B) Research	(C) Analysis	(D) Investigation
57	(A) Pathology	(B) Biology	(C) Cardiology	(D) Radiology
58	(A) Sports:Coach	(B) Drama:Director	(C) Advice:Adviser	(D) Student:Teacher
59	(A) Plastic	(B) Nylon	(C) Silk	(D) Polythene
60	(A) Bangkok	(B) Jindal	(C) Rangoon	(D) Kabul

Instruction: Find out the correct mirror image in question no.61 to 65.

61					
		(A)	(B)	(C)	(D)
62					
		(A)	(B)	(C)	(D)
63					
		(A)	(B)	(C)	(D)
64					
		(A)	(B)	(C)	(D)
65					
		(A)	(B)	(C)	(D)

Instruction: Find out the correct co-relation in question no.66 to 70.

66	India : Ashok Chakra, France : ? (A) Eagle (B) Lily (C) Rose (D) Lotus
67	London : Thames, Delhi : ? (A) Yamuna (B) Godavari (C) Krishna (D) Kaveri
68	India : CBI, Pakistan : ? (A) NDT (B) ISI (C) CBSE (D) none
69	 :  (A)  (B)  (C)  (D) 
70	 :  (A)  (B)  (C)  (D) 

14
12
28
2
140
66

Instruction: According to the question, choose the correct option logically in question no.71 to 75.

71	(1) Index (2) Contents (3) Title (4) Chapters (5) Introduction (A) 2,3,4,5,1 (B) 3,5,2,4,1 (C) 5,1,4,2,3 (D) 3,2,5,1,4
72	(1) Embryo (2) Child (3) Baby (4) Middle Aged (5) Young (A) 1,3,4,5,2 (B) 1,3,5,2,4 (C) 1,3,2,5,4 (D) 1,3,4,2,5
73	(1) Poverty (2) Population (3) Death (4) Unemployment (5) Disease (A) 2,4,1,5,3 (B) 1,2,3,4,5 (C) 2,3,4,5,1 (D) 2,4,5,1,3
74	(1) Accident (2) Judge (3) Doctor (4) Lawyer (5) Police (A) 1,3,4,2,5 (B) 1,3,5,4,2 (C) 1,2,3,4,5 (D) 1,2,5,4,3
75	(1) Golden Jubilee (2) Silver Jubilee (3) Anniversary (4) Diamond Jubilee (5) Centenary Celebrations (A) 2,1,3,4,5 (B) 2,3,4,5,1 (C) 3,1,2,4,5 (D) 3,2,1,4,5

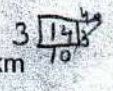
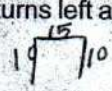
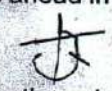
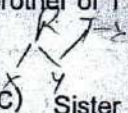
Instruction: Follow the instruction and choose the correct option in question no.76 to 80.

76	If \times means $+$, \div means \times , $+$ means $-$ and $-$ means \div then $24 + 36 - 12 \times 8 \div 4 = ?$ $\begin{array}{r} 24 + 36 - 12 \times 8 \div 4 = ? \\ - \quad \div \quad + \quad \times \end{array}$	24-36 \div 12 + 4 x4 2/4 x 4 2/3 2	
(A) 36	(B) <u>53</u>	(C) 5	(D) -20
77	If \div means $+$, $-$ means \times , \times means \div and $+$ means $-$ then $15 - 8 \times 6 \div 12 + 4 = ?$ $\begin{array}{r} 15 - 8 \times 6 \div 12 + 4 = ? \\ \times \quad \div \quad + \quad - \end{array}$	15 x 8 \div 6 + 12 -4 20 + 12 - 4 32 4	
(A) 20	(B) $8\frac{4}{7}$	(C) $2\frac{2}{7}$	(D) <u>28</u>
78	If \div means $+$, $-$ means \times , $+$ means $-$ and \times means \div then $14 - 4 \times 7 \div 12 + 8 = ?$ $\begin{array}{r} 14 - 4 \times 7 \div 12 + 8 = ? \\ \times \quad \div \quad + \quad - \end{array}$	14 x 4 \div 7 + 12 - 8	
(A) <u>12</u>	(B) 20	(C) $5\frac{1}{11}$	(D) 8
79	If \div means \times , $+$ means \div , $-$ means $+$ and \times means $-$ then $20 - 16 + 4 \times 3 \div 2 = ?$ $\begin{array}{r} 20 - 16 + 4 \times 3 \div 2 = ? \\ + \quad \div \quad - \quad \times \end{array}$	20 + 16 \div 4 - 3 x 2 20 + 12 = 24 - 6	
(A) 16	(B) 30	(C) <u>18</u>	(D) 24
80	If A means $-$, B means \div , C means $+$, D means \times then $15B3C24A12D2 = ?$ $\begin{array}{r} 15B3C24A12D2 = ? \\ - \quad \div \quad \times \end{array}$	29 24	
(A) 3	(B) <u>5</u>	(C) 7	(D) 9

Instruction: Follow the instruction and choose the correct answer from the option.
(que. no.81 to 100)

81	If third Friday is on 16th of a month then what will be the date of fourth Tuesday of same month?	(A) 20	(B) 22	(C) 27	(D) 29
82	Today is Monday. Which will be the day after 65 days?	(A) Wednesday	(B) Friday	(C) Saturday	(D) Sunday
83	1st January, 2000 was Saturday then which day will be there on 1st January, 2001.	(A) Monday	(B) Tuesday	(C) Friday	(D) Saturday
84	Which will be the Leap Year?	(A) 2800	(B) 1800	(C) 2600	(D) 300
85	R is sister of M and M is brother of H. D is mother of K, and K is brother of M then what is the relation between R and D? $\begin{array}{l} R \text{ sis } M \text{ bro } H \text{ bro } M \\ \downarrow \\ D \end{array}$	(A) Sister	(B) Daughter	(C) Mother	(D) Incomplete information
86	K is brother of T, M is mother of K, W is brother of M then what is the relation between W and T?	(A) Maternal Uncle	(B) Grand Father	(C) Paternal Uncle	(D) None of these

87	Mohan pointing his finger to a photo, and said that " The only child of his mother is the only son of my father." Then whose photo is Mohan pointing ? (A) Brother (B) Himself (C) Paternal Cousin (D) Maternal Cousin
88	What will be my relations with the daughter of my paternal aunt's father's son ? (A) Paternal aunt (B) Sister (C) Niece (D) Niece (Brother's Daughter) (Sister's Daughter)
89	X and Y are brothers. R is father of Y. S is brother of T and maternal uncle of X. Then what is the relation of T and R ? (A) Wife (B) Mother (C) Sister (D) Brother
90	A clock is kept in a way that at 12 o'clock its minute hand is in north east direction. Then what will be the direction of hour hand at 1:30 ? (A) North (B) South (C) East (D) West
91	If south east is north and north east is west and goes ahead in same direction then what will be the direction of west ? (A) south west (B) north east (C) south east (D) north west
92	A train runs 120 km in the west, then it runs 30 km in the south and 80 km in the east again before reaching the station, in which direction the station will be from the starting point of the train ? (A) south east (B) north west (C) south (D) south west
93	Ram stands out towards the north. He walks directly (straight) 10 km. Then he turns left and walks 15 km and then turns left and walks 10 km. Then how far is he from the starting point ? (A) 10 km (B) 5 km (C) 12 km (D) 15 km
94	A man walks 3 km north from his house. Then turns left and walks 2 km. Then turns right and walks 1 km. At last he turns right and walks 5 km. How far is he from his house ? (A) 3 km (B) 6 km (C) 4 km (D) 5 km
95	Nitin walks 14 km west then he goes 3 km south. Afterwards he walks 10 km towards east. How far is he from his starting point ? (A) 5 km (B) 12 km (C) 15 km (D) 10 km
96	Proportion ratio of the age of A & B is 3 : 2 today. After 5 years it will be 8 : 7. What is the sum of the age of both ? (A) 8 year (B) 5 year (C) 10 year (D) none of these
97	Sum of Luky & Suman age is 35 years today. Proportion ratio will be 4 : 5 after 5 years. What is the age difference between them now ? (A) 3 year (B) 6 year (C) 5 year (D) 4 year



3 2
 8 7
 5 4
 11 9
 $5y + 40 = 7x + 5$
 $25 5$
 $20 5 = 4$
 45
 $x + y = 35$
 $x + 5 + y + 5 = 44 + 20$
 $(x + y) + 10 = 44 + 20$
 $5x - 4y = -5$

98	Father's age is 8 years plus of thrice son's age. Mother's age is 3 years more than father's age. If son's age is 7 years then what is the age of mother ? (A) 26 year (B) 29 year (C) 32 year (D) 35 year
99	There are 3 red 5 yellow and 4 green balls in a box, If 3 balls are randomly taken from the box. Then what is the probability of taken balls ? (A) 120 (B) 220 (C) 320 (D) 420
100	If 16 persons shake hands in a party then what will be the total number of shaking hands be combined? (A) 120 <u>(B) 256</u> (C) 110 (D) 100

$$z = 3y + 6$$

$$z = x + 3$$

NTSE – 2018

60

Total Time
90 Minutes

PART - 2

Total Marks
100

Exam Date : 04/11/2018

SEAT NO.

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Q. Booklet No.
143957
SEAL SEAL SEA

INSTRUCTION FOR STUDENTS

Please read the following instruction carefully, and then answer the question on OMR answer sheet.

1: This paper contains PART-2 (SCHOLASTIC APTITUDE TEST) questions.

Part	Part Name	Que.No.	Time	Marks
2	SCHOLASTIC APTITUDE TEST	1 To 100	90 Minutes	100

2. This section will be 90 minutes.
3. All questions are compulsory.
4. The blank pages are given in this question booklet for rough work.
5. You must have to submit the OMR Sheet to the invigilator on completion the examination.

PART-2 : SCHOLASTIC APTITUDE TEST (SAT)

1	$(A \cap B)'$ = ____ (A) $A \cup B'$ (B) $A' \cup B$ (C) $A \cup B$ (D) $A \cap B$
2	The supplementary angle of the complementary angle of angle having measure 23 has measure ____. (A) 67 (B) 90 (C) 113 (D) 23
3	The width of the class 55.5 - 60.5 is ____. (A) 10 (B) 5 (C) 2.5 (D) 7
4	\overline{AD} and \overline{BE} are the altitudes of $\triangle ABC$. If $AD = 6$ cm, $BC = 16$ cm, $BE = 8$ cm, then $CA =$ ____ cm. (A) 12 (B) 18 (C) 24 (D) 10
5	If one factor of the polynomial $x^3 + 4x^2 - 3x - 18$ is $x + 3$, then the other factor is ____. (A) $x^2 + x$ (B) $x^2 + x + 6$ (C) $x^2 + x - 6$ (D) $x^2 - x + 6$
6	If G.C.D. of two numbers is 8 and their product is 384, then their L.C.M. is ____. (A) 24 (B) 16 (C) 32 (D) 48
7	The sum of the zeros of $3x^2 + 5x - 2$ is ____. (A) $\frac{3}{5}$ (B) $-\frac{3}{5}$ (C) $\frac{5}{3}$ (D) $-\frac{5}{3}$
8	If in a two digit number, the digit at unit place is y and the digit at tens place is 7, then the number is ____. (A) $70y + 7$ (B) $y + 7$ (C) $y + 70$ (D) $10y + 7$
9	If the correspondence $ABC \leftrightarrow EFD$ is a similarity in $\triangle ABC$ and $\triangle DEF$, then ____ of the following is not true. (A) $\frac{BC}{DF} = \frac{AC}{DE}$ (B) $\frac{AB}{DE} = \frac{BC}{DF}$ (C) $\frac{AB}{EF} = \frac{AC}{DE}$ (D) $\frac{BC}{DF} = \frac{AB}{EF}$
10	In $\triangle ABC$, $m\angle B = 90$, $AB = BC$. Then $AB : AC =$ ____. (A) 1 : 3 (B) 1 : 2 (C) $1 : \sqrt{2}$ (D) $\sqrt{2} : 1$
11	The diagonal of a square is $5\sqrt{2}$. The length of the side of the square is ____. (A) 10 (B) 5 (C) $3\sqrt{2}$ (D) $2\sqrt{2}$

(-3, 2)

12	The foot of the perpendicular from P(-3, 2) to the Y - axis is M. co-ordinates of M are ____.
(A)	(3, 0) <input checked="" type="checkbox"/> (B) (0, 2) (C) $(\frac{3}{2}, -1)$ (D) (-3, 2)
13	If $\tan 5\theta \cdot \tan 4\theta = 1$, then θ is ____.
(A)	7 (B) 3 <input checked="" type="checkbox"/> (C) 10 (D) 9
14	For right angle ΔABC , $\sin^2 A + \sin^2 B + \sin^2 C =$ ____.
(A)	2 (B) 1 (C) 0 (D) -1
15	A chord of $\odot (0, 5)$ touches $\odot (0, 3)$. Therefore, the length of the chord = ____.
(A)	8 (B) 10 <input checked="" type="checkbox"/> (C) 7 (D) 6
16	A card is selected at random from well - shuffled pack of 52 cards. The probability that the selected card is not an ace is ____.
(A)	<input checked="" type="checkbox"/> $\frac{12}{13}$ (B) $\frac{4}{13}$ (C) $\frac{1}{13}$ (D) $\frac{13}{4}$
17	Two balanced dice are thrown once. The probability of getting sum of numbers is divisible by 5 is ____.
(A)	<input checked="" type="checkbox"/> $\frac{29}{36}$ (B) $\frac{5}{36}$ (C) $\frac{1}{6}$ <input checked="" type="checkbox"/> (D) $\frac{7}{36}$
18	If $\sqrt{3}$ and $-\sqrt{3}$ are the zeros of a polynomial $p(x)$, then ____ is not the factor of the $p(x)$.
(A)	$x + \sqrt{3}$ (B) $x - \sqrt{3}$ (C) $x^2 - 3$ <input checked="" type="checkbox"/> (D) $x^2 + 3$
19	Equation $\frac{2}{3}x + \frac{3}{2}y = 5$ can be expressed in the standard form as ____.
(A)	$2x + 3y - 5 = 0$ (B) $4x + 9y - 5 = 0$
(C)	$4x + 9y + 30 = 0$ <input checked="" type="checkbox"/> (D) $4x + 9y - 30 = 0$
20	$\frac{317}{3125}$ represents ____.
(A)	A terminating decimal (B) A non-recurring decimal
(C)	A recurring decimal (D) An Integer
21	100 meter = ____ nm.
(A)	10^{-11} <input checked="" type="checkbox"/> (B) 10^{11} (C) 10^{-9} (D) 10^9
22	Which is not an allotropes of carbon nanostructures ?
(A)	Fullerene (B) Graphene
<input checked="" type="checkbox"/> (C)	Bucky - ball of Born atoms (D) Nanobuds



tan 5θ tan 4θ = 1

2x + 3y = 5

500000000000

$\frac{2}{3}x + \frac{3}{2}y = 5$

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23	What is speed of light in glass ?	(A) $2 \times 10^8 \text{ ms}^{-1}$	(B) $2.25 \times 10^8 \text{ ms}^{-1}$
		(C) $3 \times 10^8 \text{ ms}^{-1}$	(D) $1.75 \times 10^8 \text{ ms}^{-1}$
24	Which equation not represent Snell's law ?	(A) $\frac{n_2}{n_1} = \frac{\sin\theta_1}{\sin\theta_2}$	(B) $\frac{n_1}{n_2} = \frac{\sin\theta_2}{\sin\theta_1}$
		(C) $n_1 \sin\theta_1 = n_2 \sin\theta_2$	(D) $n_1 \sin\theta_2 = n_2 \sin\theta_1$
25	National science day celebrates on _____.	(A) March 28	(B) January 28
		(C) April 28	(D) February 28
26	When a milky and cloudy layer is formed on the eye lens of old age person, they lose their vision partially or completely. This type of situation is called _____.	(A) Myopia	(B) Cataract
		(C) Hypermetropia	(D) Presbyopia
27	Determine the equivalent resistance between points x and y in the following circuit.		
		(A) 5Ω	(B) 12Ω
		(C) 9Ω	(D) 6Ω
28	Which formula is not correct for R ? (R = Resistance)	(A) $R = \frac{W}{I^2 t}$	(B) $R = \frac{V^2}{P}$
		(C) $R = I^2 t$	(D) $R = \frac{P}{I^2}$
29	The unit of electric potential difference is _____.	(A) JC	(B) J/C
		(C) J	(D) C/J
30	Which is not correct ?	(A) Acid + Base \rightarrow Salt + Water	(B) Acid + Metal oxide \rightarrow Salt + Water
		(C) Non-Metal oxide + Water \rightarrow Base	(D) Base + Metal \rightarrow Salt + Hydrogen + Water
31	Which is weak acid ?	(A) Oxalic acid	(B) Hydrochloric acid
		(C) Nitric acid	(D) Sulphuric acid
32	What is chemical formula of milk of magnesia ?	(A) MgNO_3	(B) MgSO_4
		(C) Mg(OH)_3	(D) Mg(OH)_2
33	How many long wire can be drawn from a gram of gold ?	(A) 2 centimeter	(B) 2 meter
		(C) 2 kilometer	(D) 200 meter

34	Which alloy is used to preparation of statues ?
	(A) Bronze (B) Brass (C) Steel (D) Duralumin
35	Which is not a step of metallurgy ?
	(A) Reduction (B) Roasting (C) Corrosion (D) Concentration of ore
36	_____ respire through lungs.
	(A) crabs (B) lizard (C) sepia (D) prawns
37	Anaerobic respiration takes place only in _____.
	(A) Mitochondria (B) Glands (C) Lungs (D) Cytoplasm
38	The small intestine receives the secretion from _____.
	(A) Salivary glands (B) Stomach and liver (C) Liver and Salivary glands (D) Liver and Pancreas
39	Where in do the Pulmonary veins open ?
	(A) Left auricle (B) Left ventricle (C) Lungs (D) Right auricle
40	In the villi of ileum the absorption of lipids takes place through ...
	(A) Lymph ducts (B) Lymph capillaries (C) Blood capillaries (D) Lymph vessels
41	Which animals in the animal kingdom require the maximum amount of energy ?
	(A) Fishes Amphibians (B) Amphibians Reptiles (C) Mammals Reptiles (D) Birds - Mammals
42	It is found as four small glands.
	(A) Parathyroid gland (B) Adrenal gland (C) Pituitary gland (D) Thyroid gland
43	Whose excessive secretion causes the body to look like gorilla ?
	(A) GTH (B) PRL (C) GH (D) MSH
44	Which wave length of harmful UV - radiations is prevented by ozone layer in entering the Earth atmosphere ?
	(A) 210 - 300 nm (B) 200 - 310 nm (C) 120 - 210 nm (D) 400 - 700 nm

45	Which of the following groups have only non-biodegradable components ? 1. wood, paper, leather 2. polythene, detergent, pvc 3. plastic, detergent, glass 4. plastic, glass, animal dug (A) 1 and 4 (B) only 3 <input checked="" type="checkbox"/> (C) 2 and 3 (D) 1 and 3
46	A car accelerates uniformly from 18 km/h to 36 km/h in 5 sec. Calculate the acceleration. <input checked="" type="checkbox"/> (A) 1 ms^{-2} (B) 3.6 ms^{-2} (C) 2 ms^{-2} (D) 2.6 ms^{-2}
47	What is the SI unit of momentum ? (A) g ms^{-1} (B) $\text{g m}^2\text{s}^{-1}$ <input checked="" type="checkbox"/> (C) kg ms^{-1} (D) kg ms^{-2}
48	What is mass of the moon ? (A) $6 \times 10^{24} \text{ kg}$ <input checked="" type="checkbox"/> (B) $7.4 \times 10^{22} \text{ kg}$ (C) $6 \times 10^{22} \text{ kg}$ (D) $7.4 \times 10^{24} \text{ kg}$
49	A boy of mass 50 kg runs up a staircase of 45 steps in 9 sec. If the height of each step is 15 cm. Find his power. (Take $g = 10 \text{ ms}^{-2}$) <input checked="" type="checkbox"/> (A) 275 w (B) 350 w (C) 325 w <input checked="" type="checkbox"/> (D) 375 w
50	When we go from solid to gaseous state, the speed of sound _____. (A) increases (B) increases or decreases <input checked="" type="checkbox"/> (C) decreases (D) constant
51	What is formula of carbon tetrachloride ? <input checked="" type="checkbox"/> (A) CCl_4 (B) CCl_3 (C) CCl_2 (D) CCl
52	What is the maximum number of electrons that can be accommodated in the outermost orbit ? <input checked="" type="checkbox"/> (A) 2 <input checked="" type="checkbox"/> (B) 8 (C) 3 <input checked="" type="checkbox"/> (D) 18
53	The melting point of ice is _____. <input checked="" type="checkbox"/> (A) 273.15 k (B) 173.15 k (C) 373.5 k (D) 100 k
54	_____ is not an example of Aerosol. <input checked="" type="checkbox"/> (A) Fog (B) Clouds (C) Mist <input checked="" type="checkbox"/> (D) Shaving cream
55	Who give the definition of an element ? <input checked="" type="checkbox"/> (A) Robert Boyle (B) John Dalton <input checked="" type="checkbox"/> (C) Lavoisier (D) Thomson

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56	_____ is also known as the 'suicide bags' of a cell.						
(A)	Mitochondria	(B)	Lysosomes				
(C)	Plastids	(D)	Golgi Apparatus				
57	_____ is not an example of simple Tissues.						
(A)	Parenchyma	(B)	Collenchyma	(C)	Sclerenchyma	(D)	Phloem
58	Which is example of the bryophyte ?						
(A)	spirogyra	(B)	ulothrix	(C)	ulva	(D)	marchantia
59	_____ is not an example of Echinodermata.						
(A)	Octopus	(B)	Sea star	(C)	Echinus	(D)	Antedon
60	Which is an example of chronic diseases ?						
(A)	Common cold	(B)	Asthma	(C)	Flu	(D)	Pneumonia
61	Who discovered the 'Cape of Good Hope' ?						
(A)	Vasco-da-Gama	(B)	Bartholomew Diaz				
(C)	Columbus	(D)	Prince Henry				
62	Who become the first Governer General of India ?						
(A)	Cornwallis	(B)	Wellesley				
(C)	Warren Hastings	(D)	Sir John Shore				
63	There are how many commissions were formed in Paris "Peace Process" ?						
(A)	48	(B)	58	(C)	68	(D)	79
64	Who was the Pioneer of armed revolution in Gujarat ?						
(A)	Aurobindo Ghosh	(B)	Baarindrakumar Ghosh				
(C)	Bal Gangadhar Tilak	(D)	Mahatma Gandhi				
65	One lakh mill workers of 75 cotton mill industries in Ahmedabad went on peaceful strike for how many days ?						
(A)	35 days	(B)	95 days	(C)	105 days	(D)	2010 days
66	In which year union summit was held at Kuala Lumpur ?						
(A)	2001	(B)	2003	(C)	2004	(D)	2009
67	In the year 1971, Bangladesh become an independent and sovereign country as earlier it was the part of which country ?						
(A)	India	(B)	Afganistan	(C)	China	(D)	Pakistan

68	Who was appointed as the chairman of state reorganisation commission by Jawaharlal Nehru in 1953 ?
	(A) Mr. Hridaynath Kunzru (B) Mr. K. M. Panikkar (C) Justice Fazal Ali (D) Dr. Sarvapalli Radhakrishnan
69	Which word was inserted in the constitution by 42 nd Amendment 1976 ?
	(A) Social (B) Political (C) Sovereign (D) Secular
70	Who said this " To rule the regime there principles are the foundations. "
	(A) Mahatma Gandhi (B) Sardar Patel (C) Dr. B. K. Ambedkar (D) Dr. Rajendra Prasad
71	If any member of the Loksabha remains absent for a continuous period of how many days without informing the speaker then his seat is declared vacant ?
	(A) 60 (B) 70 (C) 80 (D) 105
72	The Judge who handles the criminal cases is called ?
	(A) District Judge (B) Muncif Magistrate (C) Sessions Judge (D) Supreme Court Judge
73	In which sea Lakshadweep Islands are located ?
	(A) Bay of Bengal (B) Arabian Sea (C) Red Sea (D) Mediterranean Sea
74	In our routine life, about how many types of minerals are used directly or indirectly ?
	(A) 100 types (B) 200 types (C) 300 types (D) 400 types
75	Which island in Brahmaputra is the largest riverine Island in the world ?
	(A) Drivar (B) Barren Island (C) Great Nicobar Island (D) Mazuli (Majuli)
76	Where is the Miradatar fair held in the Rajab Month 16 to 22 nd ?
	(A) Girnar (B) Bhavnagar (C) Kwant (D) Unava
77	How many types of tunes have been described by Pandit Ahobale ?
	(A) 108 (B) 29 (C) 101 (D) 19

78	Gujarati Poetry known as Garba and Garbi are chiefly associated with which types of Bhakti?	(A) Ram Bhakti	(B) Hanuman Bhakti
		(C) Meera Bhakti	(D) Krishna Bhakti
79	Dholka is a place between which two rivers?	(A) Narmada and Tapi	(B) Sabarmati and Narmada
		(C) Bhogavo and Sabarmati	(D) Sabarmati and Mahi
80	What was built in Lothal to facilitate the Ships?	(A) Hall	(B) Dockyard
		(C) Pillar	(D) Grill
81	In which language the earlier Buddhist literature was written?	(A) Hindi	(B) Sanskrit
		(C) Magadhi	(D) Pali
82	The ruler of vallabhi belonged to which Dynasty?	(A) Maitrak Dynasty	(B) Vijay Nagar Dynasty
		(C) Mughal Dynasty	(D) Vansh Dynasty
83	Who has written the book 'Bij Ganit'?	(A) Shankaracharya	(B) Bhaskaracharya
		(C) Vatsayayan	(D) Maharshi Patanjali
84	Hindu caves are built during the reign of which dynasty?	(A) Ashoka Dynasty	(B) Maurya Dynasty
		(C) Kunala Dynasty	(D) Rashtrakuta Dynasty
85	How much percentage of the total land of India occupies Red Soil?	(A) 19%	(B) 29%
		(C) 39%	(D) 40%
86	Leopard belongs to which family?	(A) Lion	(B) Tiger
		(C) Dog	(D) Cat
87	Watermelon and Cucumber are of which types of agricultural crops in India?	(A) Kharif Crops	(B) Zaid Crops
		(C) Rabi Crops	(D) Plantation Crops
88	Which are the main source of surface water?	(A) Seas	(B) Lakes
		(C) Rivers	(D) Ponds

89	In which country the Bauxite was found first time in 1921 ? (A) India (B) America (C) China (D) France
90	20 % rich people of the country share 40 % of National income and the Poorest 20 % people share how much percentage of National income ? (A) 30 % (B) 20 % (C) 10 % (D) 5 %
91	In which year the World Trade Organisation was established ? (A) 1950 (B) 1985 (C) 1995 (D) 2015
92	Where was the first time " Earth conference " organised in 1972 ? (A) Stockholm in Sweden (B) Imphal in India (C) Geneva in Switzerland (D) America in Washington
93	In which year Air Pollution Act was passed in India ? (A) 1961 (B) 1971 (C) 1981 (D) 1999
94	Concept of poverty was first propounded by director of which organisation ? (A) WTO (B) WHO (C) ECOSOC (D) UNICEF
95	According to census counting of 2011, how many educated unemployed were in India ? (A) 54 Million (B) 79 Million (C) 81 Million (D) 84 Million
96	Till 2015 there were how many employment exchange centers were in our country ? (A) 908 (B) 947 (C) 1010 (D) 1189
97	According to early hypothesis ' Varna System ' was based on how many occupations ? (A) 10 (B) 6 (C) 4 (D) 2
98	In which article of Indian Constitution Schedule tribes are included ? (A) Article - 341 (B) Article - 342 (C) Article - 29 (D) Article - 15
99	According to which Article, untouchability is totally eradicated and its practice in any form is prohibited ? (A) Article - 17 (B) Article-29(a) (C) Article - 341 (D) Article - 25
100	After which year Terrorism has increased in Kashmir ? (A) 1962 (B) 1965 (C) 1988 (D) 1999