NTSE – 2018

Total Time
90 Minutes

PART - 1

Total Marks
100

Exam Date : 04/11/2018

Q.Booklet No.
153461
SEAL SEAL SEAL

SEAT NO. | | | | | | | |

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.

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SPACE FOR ROUGH WORK

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PART-1 : MENTAL ABILITY TEST (MAT)

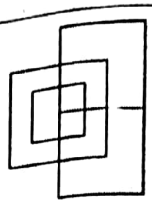
Instruction: In each of the following question no.1 to 10, a number series is given with missing of one term. Choose the correct alternative that will continue the same pattern and replace the question mark (?) in the given series.

1	2, 3, 5, 9, 17, ?			
	(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, ?			
	(A) 229	(B) 232	(C) 222	(D) 223
5	3, 19, 97, 391, ? , 2359			
	(A) 1177	(B) 1084	(C) 1711	(D) 1958
6	2, 7, 24, 77, ?			
	(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			
	(A) 13824	(B) 9261	(C) 12167	(D) 15625
9	97, 86, 99, 88, 101, ? , ?			
	(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

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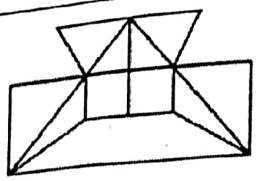
Instruction: In question no.11 to 20, figures are given with question mark (?). Complete the figure replacing question mark (?) with suitable number logically.

11 How many line segments are there in the given figure ?



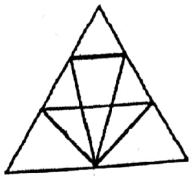
(A) 12 (B) 13 (C) 14 (D) 15

12 How many line segments are there in the given figure ?



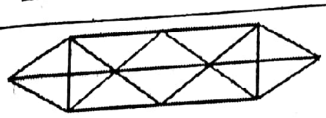
(A) 19 (B) 18 (C) 17 (D) 16

13 How many triangles are there in the given figure ?



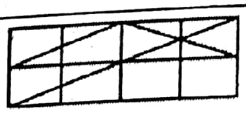
(A) 26 (B) 22 (C) 18 (D) 12

14 How many triangles are there in the given figure ?



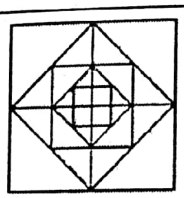
(A) 28 (B) 24 (C) 14 (D) 10

15 How many triangles are there in the given figure ?



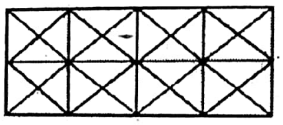
(A) 29 (B) 23 (C) 19 (D) none of these

16 How many squares are there in the given figure ?



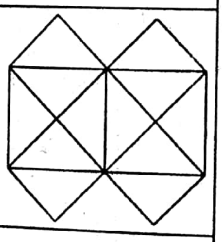
(A) 16 (B) 17 (C) 12 (D) 13

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

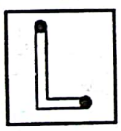
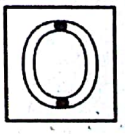
20 How many squares are there in the given figure ?
(A) 5 (B) 6 (C) 7 (D) 8

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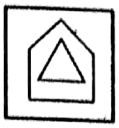
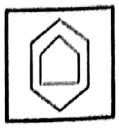
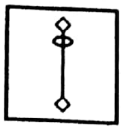
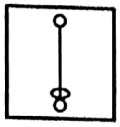
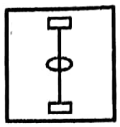
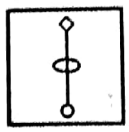
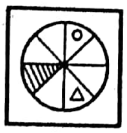
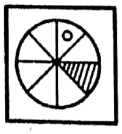
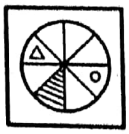
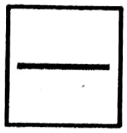
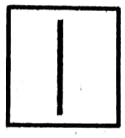
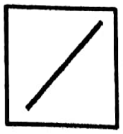
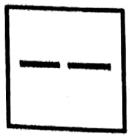
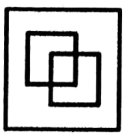
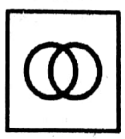
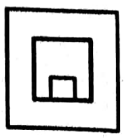
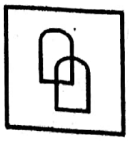
Instruction: In question no.21 to 30, English alphabets are given digital number/code. Using them, find the correct digital number/code for given English word by choosing the correct option given below.

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, jjj, 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	$\frac{A}{4}, \frac{D}{9}, \frac{H}{15}, \frac{M}{22}$, ?			
	(A) $\frac{R}{30}$	(B) $\frac{Q}{31}$	(C) $\frac{Q}{30}$	(D) $\frac{S}{30}$
28	LU____TUPLUBTU___LUBT___P___UBTUP			
	(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)	 (B)	 (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)

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Instruction: In question no.41 to 50, 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.

41	If CAT is written ATC in sign language DEAR is written EARD in sign language. Then, How sign will be written in sign language. (A) INGS (B) NGSI (C) SNGI (D) SGIN
42	If ' no more food ' is written ' ta ka da ' in sign langauge and ' more then that' is written ' sa pa ka ' then what will be written for ' that ' in the sign. (A) sa (B) ka (C) sa and pa (D) incomplete information
43	If LAP is written KMZBOQ in sign language then what will be written for NOTE ? (A) MONPSUFD (B) MONPUSDF (C) MNOPSUDE (D) MONPSUDF
44	If E = 5 and EMPIRE = 66 then what will be written for REPAIR ? (A) 66 (B) 67 (C) 12 (D) 13
45	If SSC is written 19193 in sign language then what will be written for BBC ? (A) 113 (B) 221 (C) 223 (D) 213
46	If CHARACTER is written 241612376 and CHILDREN is written 24859670 in sign langauge, then what will be written for HIRALAL ? (A) 4861551 (B) 4861515 (C) 4865151 (D) 4681515
47	If APPLE is written ETTPI in sign language then what will be written for DELHI ? (A) HIPLM (B) ZAHDE (C) HPILM (D) CQMND
48	If DOCUMETNS is written VDPENRSMD then what will be written for ADVERTISE? (A) FWEBDSRHS (B) FWEBSDRHS (C) FWBESRDHS (D) FWEBSFMLD
49	If A = 1 and AND = 19 then what is for BAT ? (A) 22 (B) 23 (C) 21 (D) 20
50	If MEAN is written $57★, DOME is written 93$5 then what will be written for MOAN? (A) 3$7★ (B) $73★ (C) $37★ (D) $★37

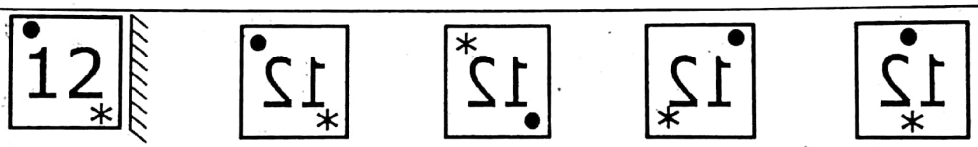
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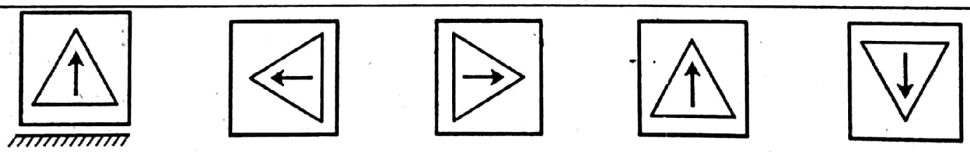
Instruction: Four option are given in question no.51 to 60. One of the option is differs from the rest. Find out that different option.

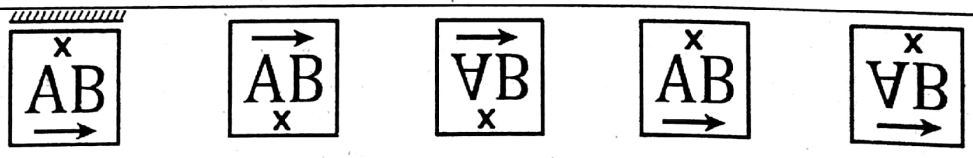
51	(A) Iron	(B) Silver	(C) Gold	(D) Brass
52	(A) cotton - tea	(B) milk : card	(C) grapes : wine	(D) bamboo: paper
53	(A) 6023	(B) 7202	(C) 4025	(D) 5061
54	(A) Writer	(B) Publisher	(C) Poet	(D) Novelist
55	(A) Violin	(B) Sitar	(C) Flute	(D) Veena
56	(A) Conclusion	(B) Research	(C) Analysis	(D) Investigation
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

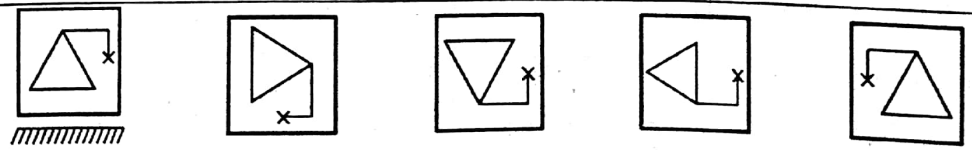
Instruction: Find out the correct mirror image in question no.61 to 65.

61 
(A) (B) (C) (D)

62 
(A) (B) (C) (D)

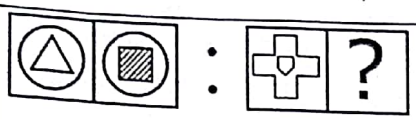
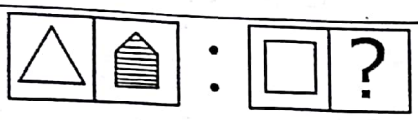
63 
(A) (B) (C) (D)

64 
(A) (B) (C) (D)

65 
(A) (B) (C) (D)

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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) 

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

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

76	If × means +, ÷ means ×, + means − and − means ÷ then $24 + 36 - 12 \times 8 \div 4 = ?$			
	(A) 36	(B) 53	(C) 5	(D) −20
77	If ÷ means +, − means ×, × means ÷ and + means − then $15 - 8 \times 6 \div 12 + 4 = ?$			
	(A) 20	(B) $8\frac{4}{7}$	(C) $2\frac{2}{7}$	(D) 28
78	If ÷ means +, − means ×, + means − and × means ÷ then $14 - 4 \times 7 \div 12 + 8 = ?$			
	(A) 12	(B) 20	(C) $5\frac{1}{11}$	(D) 8
79	If ÷ means ×, + means ÷, − means + and × means − then $20 - 16 + 4 \times 3 \div 2 = ?$			
	(A) 16	(B) 30	(C) 18	(D) 24
80	If A means −, B means ÷, C means +, D means × then 15B3C24A12D2 = ?			
	(A) 3	(B) 5	(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 ?			
	(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

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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 (Brother' Daughter) (D) Niece (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

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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 (B) 256 (C) 110 (D) 100

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SPACE FOR ROUGH WORK

Q.Booklet No.
153461
SEAL SEAL SEAL

Leave the examination hall after handing over OMR SHEET to the block invigilator. Of any one commits such mistake; he/she will be considered ineligible for the examination.

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OMR- ઉત્તરપત્ર

STATE EXAMINATION BOARD, GANDHINAGAR
NATIONAL TALENT SEARCH EXAMINATION - 2018
Answer Sheet for Std. X

Seat Number

0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

૧. યોગ્ય (ભરવા) વર્તુળને પૂર્ણ કરવા કાળી / વાદળી બોલપેનનો ઉપયોગ કરવો.
૨. વર્તુળને સંપૂર્ણ રીતે પૂર્ણ કરવાનું રહેશે.
૩. એક વખત વર્તુળને પૂર્ણ કર્યા બાદ જવાબમાં ફેરફાર કરી શકાશે નહીં.
૪. ઉત્તર પત્ર પર રફવર્ક (કાચું કામ) કરવું નહીં.
૫. ઉત્તર પત્ર પર કોઈ પણ પ્રકારનો ડાઘ / કરચલી પડે નહીં તે જોવું.
૬. જે તે પ્રશ્નના અનુસંધાને નિયત વર્તુળને જ પૂર્ણ કરવું.
૭. નમૂનામાં જણાવ્યા મુજબ ફક્ત એક જ વર્તુળને પૂર્ણ કરવાનું રહેશે.

State Code: 3 7

Example

Correct સાચું (ઋતિરંજિત): (A) (B) (C) ●

Wrong ખોટું (ભૂલ/ચુક્ત): (A) (B) (C) (D) / (A) (B) (C) (D) / (A) ● (C) ●

MEDIUM/ LANGUAGE

ENGLISH ○
GUJRATI ○

OMR ANSWER SHEET NO.

153461

MENTAL ABILITY TEST (PAPER-1)

001	A	B	C	D
002	A	B	C	D
003	A	B	C	D
004	A	B	C	D
005	A	B	C	D
006	A	B	C	D
007	A	B	C	D
008	A	B	C	D
009	A	B	C	D
010	A	B	C	D
011	A	B	C	D
012	A	B	C	D
013	A	B	C	D
014	A	B	C	D
015	A	B	C	D
016	A	B	C	D
017	A	B	C	D
018	A	B	C	D
019	A	B	C	D
020	A	B	C	D
021	A	B	C	D
022	A	B	C	D
023	A	B	C	D
024	A	B	C	D
025	A	B	C	D
026	A	B	C	D
027	A	B	C	D
028	A	B	C	D
029	A	B	C	D
030	A	B	C	D
031	A	B	C	D
032	A	B	C	D
033	A	B	C	D
034	A	B	C	D
035	A	B	C	D
036	A	B	C	D
037	A	B	C	D
038	A	B	C	D
039	A	B	C	D
040	A	B	C	D
041	A	B	C	D
042	A	B	C	D
043	A	B	C	D
044	A	B	C	D
045	A	B	C	D
046	A	B	C	D
047	A	B	C	D
048	A	B	C	D
049	A	B	C	D
050	A	B	C	D
051	A	B	C	D
052	A	B	C	D
053	A	B	C	D
054	A	B	C	D
055	A	B	C	D
056	A	B	C	D
057	A	B	C	D
058	A	B	C	D
059	A	B	C	D
060	A	B	C	D
061	A	B	C	D
062	A	B	C	D
063	A	B	C	D
064	A	B	C	D
065	A	B	C	D
066	A	B	C	D
067	A	B	C	D
068	A	B	C	D
069	A	B	C	D
070	A	B	C	D
071	A	B	C	D
072	A	B	C	D
073	A	B	C	D
074	A	B	C	D
075	A	B	C	D
076	A	B	C	D
077	A	B	C	D
078	A	B	C	D
079	A	B	C	D
080	A	B	C	D
081	A	B	C	D
082	A	B	C	D
083	A	B	C	D
084	A	B	C	D
085	A	B	C	D
086	A	B	C	D
087	A	B	C	D
088	A	B	C	D
089	A	B	C	D
090	A	B	C	D
091	A	B	C	D
092	A	B	C	D
093	A	B	C	D
094	A	B	C	D
095	A	B	C	D
096	A	B	C	D
097	A	B	C	D
098	A	B	C	D
099	A	B	C	D
100	A	B	C	D

પ્રમાણપત્ર

પ્રશ્નપત્ર તથા OMR શીટ સીલબંધ કવરમાં મળેલ છે.	ઉમેદવારનો ફોટો, હાજરી પત્રક અને ઉત્તરપત્રમાં ઉમેદવારની સહીની ચકાસણી કરેલ છે. હાજરી પત્રક અને ઉત્તરપત્રમાંની તમામ વિગતો ઉમેદવાર દ્વારા ભરવામાં આવી છે.
ઉમેદવારની સહી	બ્લોક સુપરવાઈઝરની

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