# JEE EXPERT

#### **SAMPLE PAPER**

## MENTAL ABILITY Going to XI

Time: 2 Hours Maximum Marks: 300 Please read the instructions carefully. You are allotted 5 minutes specifically for this purpose.

			INSTRU	CTIONS				
(i)	The question paper has 15 printed pages excluding Answer Sheet. Please ensure that the copy of the question paper you have received contains all pages.							
(ii)	The question paper contains 100 questions. Each question carry 3 marks and all the questions are compulsor							
	There is n	egative marking.	One mark will be	e deducted for eac	ch wrong answer.	No mark will be		
	deducted	for unattempted	question.					
(iii)	Each ques	tion contains Four	alternatives out of	f which only <b>ONE</b> is	correct.			
(iv)	Indicate th	e correct answer fo	or each question by	y filling appropriate	bubble in your ansv	wer sheet.		
(v)	For rough work, use the space provided in question paper booklet. No extra sheet will be provided for rough work.							
(vi)	Use of Cal	culator, Log Table,	Slide Rule and Mo	bile is not allowed.				
(vii)	The answe	er(s) of the questic	ons must be marke	ed by shading the	circles against the	question by dark		
	pencil only. For example if only 'B' choice is correct then,							
	the correct	t method for filling t	he bubble is					
		Α	В	С	D			
		0		0	0			
	the wrong	method for filling th	e bubble are					
	(a)	Α	В	С	D			
		0	$\bigcirc$	c O	0			
	(b)	Α	В	С	D			
	. ,	0	$\otimes$	c O	0			
	(c)	A	В	c O	D			
		0	•	0	0			
	The answe	er of the questions	in wrong or any oth	ner manner will be	treated as wrong.			
	Name of	the candidate		Red	n. Number			

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I have read all the instructions and shall abide by them.			fied and			form	atio	n i

Signature of the Candidate

 		ified cand			form	atio	n fill	ed		
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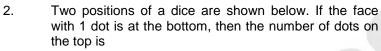
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#### SECTION - I

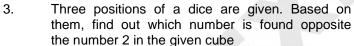
#### Straight Objective Type

This Section contains 100 multiple choice questions numbered 1 to 100. Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.

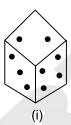
- 1. A dice is rolled twice and the two positions are shown in the figures below. What is the number of dots at the bottom face when the dice is in position (i)
  - (A) 1
  - (B) 5
  - (C) 6
  - (D) cannot be determined



- (A) 2
- (B) 3
- (C)4
- (D) 5



- (A) 6
- (B) 5
- (C) 3
- (D) 1





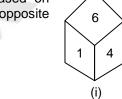


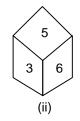


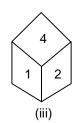
(i)



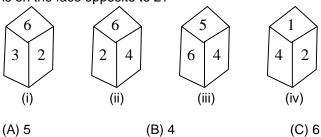
the number 2 in the given cube





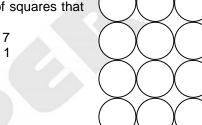


4. A die is thrown four times and the different positions are recorded as shown below, which number is on the face opposite to 2?



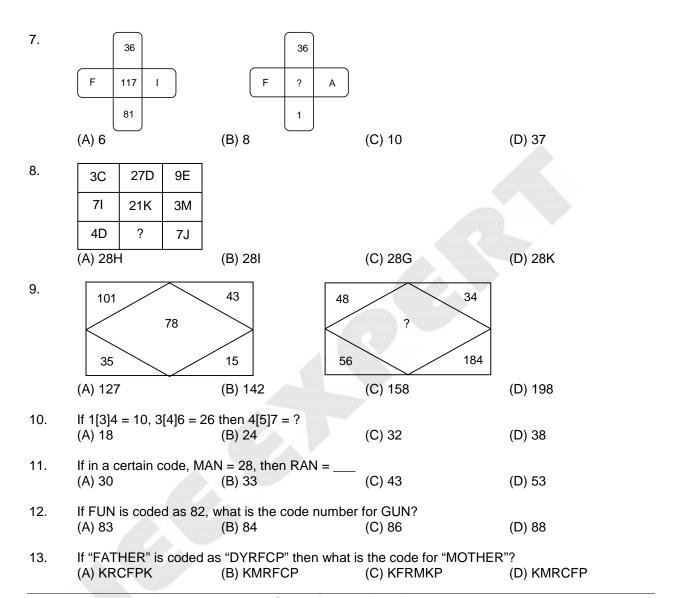
- 5. In the adjoining figure, if the centres of all the circles are joined by horizontal and vertical lines, then find the number of squares that can be formed?
  - (A) 6
  - (C) 8

(B) 7 (D) 1



(D) 1

**Directions (Q. 6 to 9):** In each of the following questions a set of figures carrying certain characters is given, assuming that the characters in each set follow similar pattern, find the missing character/ number in each case.



15.	(A) Earth	(B) Moon	(C) Mercury	(D) Venus						
16.	(A) Circle	(B) Rectangle	(C) Triangle	(D) Square						
17.	(A) 111	(B) 113	(C) 119	(D) 117						
18.	(A) 8	(B) 63	(C) 216	(D) 512						
19.	(A) 97	(B) 91	(C) 117	(D) 69						
given v word/nu	<b>Directions:</b> (Q.20 to 24) In each of the following questions, there is a certain relationship between two given words/numbers on one side of : : and one word is given on another side of : : while another word/number is to be found from the given alternatives, having the same relation with this word as the words of the given pair bear. Choose the correct alternative.									
20.	Friend: foe::brave:									
	(A) attack	(B) weak	(C) coward	(D) strong						
21.		(B) weak	(C) coward (C) Digit	<ul><li>(D) strong</li><li>(D) Arithmetic</li></ul>						

**Directions: (Q.15 to 19)** In each of the following questions, four words have been given out of which three are alike and form a group. One is different and does not belong to the group. Find the odd one out.

If "CLOUD" is coded as "FORXG", then which word is coded as "UDLQ"?

(C) RANI

(D) RINA

(D) 320

(D) 60

(B) RAIN

(B) 520

(B) 90

14.

(A) XGOT

5:130::8:

6:30::10:

(A) 420

(A) 80

23.

24.

Space for rough work

(C) 180

(C) 70

25.	Again, he turns left and direction is he walking r	I walks 200m. Next he to now?	urns right and walks a di	and walks 100m straight. stance of 500m. In which
	(A) East	(B) North	(C) West	(D) South
26.	How far is he from the s (A) 60m	starting point finally, in the (B) 1000m	e above question? (C) 600m	(D) 100√37m
27.		own in the figure given	represents doctors, Fat	hers
	and men, which figure r (A) Circle (C) Rectangle	epresents doctors?	(B) Square (D) Any of the above	
28.	The number of triangles (A) 15 (C) 18	s in the figure shown are	(B) 16 (D) 17 H	B G C
29.		means "oranges are sw ges". Which letter in that		good oranges", and 'BGL'
	(A) K	(B) U	(C) G	(D) L
30.		tip nop baj' means 'sing		ole, 'mot baj min' means h of the following means
	(A) not	(B) min	(C) baj	(D) none of these
		certain code, 'il be peons 'flowers are vegetables		ue', 'Sik hee' means 'red
31.	How is 'red' written in th	nat code?		
	(A) hee	(B) sik	(C) be	(D) none of these
32.		red flowers' written in this		
	(A) pee sik mit hee	(B) sik pee hee be	(C) il sik mi thee	(D) none of these

33.	Srikanth is shorter than Anil, Anand is taller than srikanth, Vishnu is taller than Anil but shorter than Ravi, Anil is taller than Anand. Who will be in the middle if they stand in a row according to height?								
	(A) Anand	(B) Vishnu	(C) Ravi	(D) Anil					
34.	In the above Question, (A) Vishnu	who is the tallest person (b) Anil	? (C) Ravi	(D) Anand					
	<b>Directions: (Q.35 TO 37)</b> six students are sitting in a row. K is sitting between V and R. V is sitting next to M. M is sitting next to B, who is sitting on the extreme left and Q is sitting next to R.								
35.	Who are sitting adjacen (A) Q and K	t to V? (B) R and Q	(C) M and K	(D) B and M					
36.	Who are sitting to extreme (A) M and R	mes? (B) B and R	(C) B and Q	(D) Q and R					
37.	Who are sitting adjacen (A) V and R	t to K? (B) R and Q	(C) V and M	(D) B and M					
		the series and answers t L K J I H G F E D C B A	the questions:						
38.	Which will be the seven (A) I	th letter to the right of the (B) H	e eleventh letter from the (C) G	left? (D) F					
39.	Which will be the sixth I(A) Q	etter to the left of the tent (B) O	th letter from the right? (C) P	(D) R					
40.	Which letter will be fifth (A) C	letter to the right of ninth (B) E	letter from the right? (C) D	(D) B					
41.	If 'θ' means '+', 'φ' mear (A) 33	ns 'X' and ' $\beta$ ' means $\div$ , Fi (B) 35	ns the value of 119 $\beta$ 17 (C) 63	θ 7 φ 4. (D) 36					
42.	If 'p' stands for 'x', z sta (A) 18	nds for +, g stands for -, (B) 6	and v stands for÷, the va (C) 12	alue of 6 z 6 p 6 v 6 = (D) 36					

43.	woman?	n is the wife of the grar	ndson of my mother". How is Anil related to the			
	(A) Father (C) Husband		(B) Grand Father (D) Father–in–law			
44.	Pointing to a person, a How was the woman re		"His mother is the only	daughter of your father".		
	(A) Aunt	(B) Mother	(C) Wife	(D) Daughter		
45.	If B says that his mothe (A) Father	r is the only daughter of (B) Brother	A's mother, how is A rela (C) Grandfather	ited to B? (D) Uncle		
46.	Pointing to a boy, Rita s	says, "He is the son of m	y grandfather's only son'	' How is the boy's mother		
	(A) Mother	(B) Sister	(C) Aunt	(D) Data inadequate		
	(ii) A and C are intelligation (iii) B and D are intelligative D and E are intelligative.	C, D and E ent in Maths and Geogra ent in Maths and History ent in Science and Geog ent in science and civics vics, History and Science	raphy.			
47.	Who is intelligent in Sci (A) E	ence, Geography and Ci (B) B	vics? (C) D	(D) A		
48.	Who is intelligent in mar(A) A	ths, science , geography (B) B	? (C) D	(D) E		
49.	Who is intelligent in ma (A) A	ths and history but not in (B) B	geography? (C) C	(D) D		
50.	Who is intelligent in ma (A) A	ths, geography and histo (B) B	ry? (C) C	(D) D		
51.	Who is intelligent in scie	ence, history and civics? (B) B	(C) C	(D) E		

#### Directions: (Q. 52 to 55)

K is the brother of X. Z is the son of x. P, the daughter of K, is married to N. G and X are sisters.

- 52. How is P related to G?
  - (A) Niece
- (B) Sister
- (C) Daughter-in-law
- (D) Daughter

- 53. How is z related to P?
  - (A) cousin
- (B) uncle
- (C) brother-in-low
- (D) maternal uncle

- 54. How is N related to K?
  - (A) son
- (B) son-in-low
- (C) nephew
- (D) father-in-low

- 55. How is G related to Z?
  - (A) Aunt
- (B) Sister
- (C) Wife
- (D) Mother-in-low
- In a certain code language 'Pic vic nic' means 'winter is cold', 'to nic re' means 'summer is hot'. 're pic boo' means 'nights are cold', which word represents 'summer'?
  - (A) re
- (B) nic
- (C) pic
- (D) vic

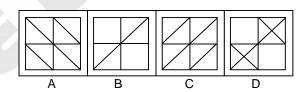
**Directions:** (Q. 57 – 60) In each of following questions, you are given a combination of alphabets and/or numbers a fig(x) followed by four alternatives (A), (B), (C) and (D). Choose the alternative which most closely resembles the mirror–image of the given combination.

- 57. WHITE
  - WHILE (A)
- (B) ∃ TIHM
- (C) BTIHW
- (D) ETIHW

- 58. MALAYALAM
  - (A) MALAYALAM
- (B) MALAYAJAM
- (С) МАГАУАГАМ
- (D) none of these

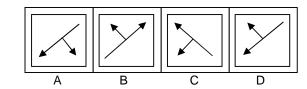
59.



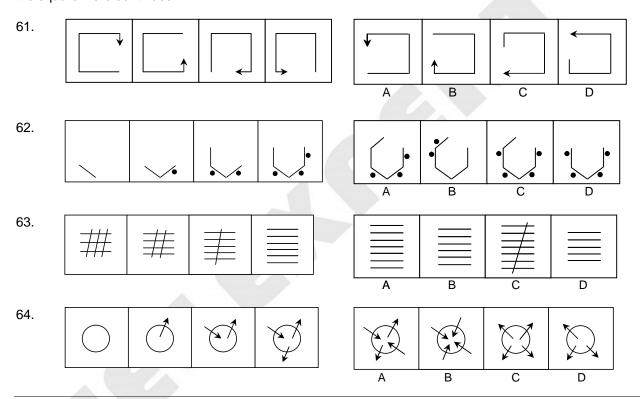


60.





**Directions: (Q. 61 to 65)**In each of the questions given below which of the answer figures should come after the four problems, if the square were continues.



Space for rough work

65.				
sequen				C D  n words in a meaningfu tervatives provided below
66.	(i) Honey, (ii) Flower, (i (A) I, III, IV, II		(C) II, III, I, IV	(D) IV, III, II, I
67.	(i) Mother, (ii) Child,(iii) (A) I, V, II, IV, III	Milk, (iv) Cry, (v) Smile (B) II, IV, I, III, V	(C) II, IV, III, I, V	(D) III, II, I, V, IV
Ravi ar	nd kunal are good in Ho and Kunal are good in	ckey and Volleyball. Sa	chin and Ravi are good	questions given below:- in Hockey and Baseball chael are good in footbal
68.	Who is good in Hockey (A) Sachin	, cricket and volleyball? (B) Kunal	(C) Ravi	(D) Gaurav
69.	Who is good in Baseba (A) Sachin	ll, cricket, volleyball and (B) Kunal	football? (C) Gaurav	(D) Ravi
70.	Who is good in Baseba (A) Sachin	ll, Volleyball and Hockey (B) Kunal	? (C) Ravi	(D) Gaurav
Direct!	ono (74, 74). Civ friondo	ore citting around a circ	vulor toblo ot ogual dista	noo from ooob other Cita

**Directions (71>74):** Six friends are sitting around a circular table at equal distance from each other. Sita is sitting two places right of Gita who is exactly opposite to Nita. Nita is on immediate left of Lata, who is exactly opposite to Rita. Mita is also sitting at the table.

71. Who is the only person sitting between Gita and Sita?

(A) Rita

(B) Mita

(C) Lata

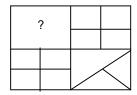
(D) Nita

72.	Sita is not sitting at equa (A) Rita and Nita	al distance from (B) Lata and Gita	(C) Mita and Lata	(D) all of these
73.	Gita is sitting to the (A) left of Mita	(B) right of Rita	(C) left of Rita	(D) right of Nita
74.	The angle subtended by (A) 60°	Mita and Nita at the cer (B) 120°	ntre of the table is (C) 90°	(D) 180°
75.		nd turns to left, runs 12m		right, runs 9m and again and runs 6m. Now which
	(A) east	(B) west	(C) north	(D) north-east
square, gram, n	ons: (76>79): In the circle and triangle repnaize and rice cultivation in figure, answer the follo	resent the region of working respectively. On the base	heat,	3 2 7 9 6 10 11
76.	Which area is cultivated (A) 7	by all the four commodit (B) 8	ties? (C) 9	(D) 2
77.	Which area is cultivated (A) 8	by wheat and maize onl (B) 6	y? (C) 5	(D) 4
78.	Which area is cultivated (A) 10	by maize only? (B) 2	(C) 3	(D) 4
79.	Which area is cultivated (A) 9	by rice and maize and r (B) 8	oothing else? (C) 2	(D) 7

80.	A 4 digit number is forn this form is always exact		git number such as 2525,3232, etc. Any number o			
	(A) 7 (C) 13	,	(B) 11 (D) smallest 3-digit prim	ne number		
81.	In a row of trees, one the row?	tree is the fifth from eith	ner end of the row. How	many trees are there in		
	(A) 11	(B) 8	(C) 10	(D) 9		
82.	Find the related word/n Suggest : Demand : : T					
	(A) Give	(B) Grab	(C) Receive	(D) Gift		
83.	0, 4, 18, 48, (A) 80	(B) 100	(C) 90	(D) 120		
one too		blue', 'Shyam loves long e captain'.		aircraft'. 'Shyam received saw blue flag' and 'I like		
84.	What does the word 're (A) we	ceived' in the code mear (B) saw	n? (C) blue	(D) aircraft		
85.	Which word is coded as (A) received	s 'believe'? (B) saw	(C) loves	(D) like		
86.	What is the code for 'lo (A) Shyam loves	ng letter'? (B) captain saw	(C) I like	(D) we believe		
87.	What is the code for 'th (A) long one	e captain'? (B) long letter	(C) received one	(D) saw flag		
88.			rns right and goes 1 km. v from his starting place? (C) South-East	He turns again right and (D) South-West		

**Directions (Q. 89):** In the following question a figure is given with a part missing. Find out the part which will complete the figure.

89.



(A)



(C)



(B)



(D)



**Directions (Q. 90):** In the following question a set of figures carrying some numbers is given. The numbers in each figure follow some specific principle. Study the figures to find out the principle on the basis of which the missing number can be derived. Then choose the correct alternative which contains the missing number.

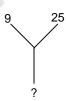
90.



(A) 47



(B) 81



(C) 50

(D) 57

**Directions:** (Q. 91 to 98) In each of the following questions, a series is given with one term missing. Choose the correct alternative that will continue the same pattern and replace the question mark in the given series:

91. 14, 916, 2536, 4964, — (A) 100121 (B) 81100 (C) 121144 (D) 144169 92. 71, 73, 79, 83, 89, \_\_\_\_ (A) 91 (B) 93 (C) 99 (D) 97 93. 2, 10, 30, 68, \_\_\_\_\_ (B) 130 (C) 222 (A) 125 (D) 350 1, 2, 3, 5, 8, 13 \_\_\_\_\_ 94. (B) 20 (A) 15 (C) 22 (D) 21 95. 1, 2, 2, 4, 8, 32, \_\_\_\_ (B) 128 (A) 64 (C) 256 (D) 512 POQ, SRT, VUW, \_\_\_\_ 96. (B) XZY (A) XYZ (C) YXZ (D) ZYX XYZABCUVW \_\_\_ (A) E 97. (C) D (A) E (D) G AA, CE, EI, GO, \_\_\_\_ 98. (C) IR (D) IU

**Directions: (Q. 99 to 100)** In each of the following letter series, some of the letters are missing which are given in that order as one of the alternatives below it. Choose the correct alternative:

99. \_ \_ b b m \_ a n b \_ m \_ a \_ b b (A) n b a b n (B) a b n a b (C) n a b a n

(D) a n b b m

100. a b a \_ b c a \_ a c \_ c a b \_ c b c (A) b b b b (B) c c b a

(C) cbba

(D) caac

## JEE EXPERT

### Going - XI (MAT)[20.01.2019] ANSWERS

1.	С	2.	В	3.	A	4.	Α
5.	С	6.	С	7.	D	8.	C
9.	В	10.	D	11.	В	12.	В
13.	В	14.	В	15.	В	16.	Α
17.	В	18.	В	19.	Α	20.	C
21.	С	22.	В	23.	В	24.	В
<b>25</b> .	Α	26.	С	27.	С	28.	D
29.	D	30.	В	31.	В	32.	Α
33.	D	34.	C	35.	С	36.	C
37.	Α	38.	Α	39.	С	40.	C
41.	В	42.	C	43.	D	44.	В
45.	D	46.	Α	47.	С	48.	В
49.	A	50.	C	51.	D	<b>52</b> .	Α
<b>53</b> .	Α	54.	В	<b>55</b> .	Α	<b>56.</b>	Α
57.	C	58.	В	<b>59</b> .	D	<b>60</b> .	C
61.	В	62.	С	63.	В	64.	Α
<b>65</b> .	В	66.	С	67.	В	68.	В
69.	C	<b>70</b> .	С	71.	Α	<b>72</b> .	C
73.	С	74.	В	<b>75</b> .	С	<b>76</b> .	Α
77.	D	<b>78.</b>	С	79.	С	80.	D
81.	D	82.	В	83.	В	84.	D
85.	D	86.	В	87.	Α	88.	D
89.	В	90.	В	91.	В	92.	D
93.	В	94.	D	95.	С	96.	C
97.	С	98.	D	99.	С	100.	C