FIITJEE

Time: 45 minute Maximum Marks: 50

MENTAL ABILITY TEST - 2016

Instructions to the Candidates Read the following instructions carefully before you answer the questions:

- 1. Answer are to be given on a SEPRATE ANSWER SHEET.
- **2.** Please write your twelve digits Roll Number very clearly on the Test-booklet and Answer Sheet as given in your admission card.
- 3. Please note and follow the instructions given on the answer sheet for writing the answers.
- **4.** Darken the CIRCLE with pen for answering the question in the appropriate space against the number corresponding to the question you are answering.
- **5.** There are 50 question in the test.
- **6.** Since all questions are compulsory, do not try read the whole question paper before beginning to answer it.
- **7.** If you do not know the answer to any question, do not spend much time on it and pass on to the next one. Time permitting, you can come back to the question, which you have left in the first instance and try them again.
- **8.** Since the time allotted for this question paper is very limited you should make the best use of it by not spending too much time on any one question.
- 9. Rough work can be done anywhere in the booklet but not on Answer sheet/loose paper.
- 10. Every correct answer will be awarded one mark.
- **11.** Please return the answer sheet to the invigilator after the test.

1.	If the following words are arranged according to the dictionary order then which will be the second word in that						
		er? Expound Expulsion	(2) (4)	Exposure Expose			
2.	If it is possible to make a meaningful word from first, fifth, seventh and eleventh letters of the word ECCENTRICITY then which will be the third letter of the word? If it is possible to make more than one world then answer will be M and if the world formation is not possible then the answer will be X.						
	(1) (3)		(2) (4)	R M			
3.	hav	e in the series?		having same no. of letters left between them as they			
	(1) (3)		(2) (4)	None of these			
4.	(1)	DOMETER is coded as DUMOTERE then how will S USLBESAE USBAELES	(2)	EASE be coded? USLBAEES None of these			
5.	(1)	ASCAL is coded as QZRBZK then how will SOLDER RNMEDQ TPMEFS		coded? RPKEDS RNKCDQ			
6.	(1)	and is coded as Brick, Brick as House, House as Ter Palace Brick		Temple as Palace then where do you worship? Temple House			
7.			unlud (2)				
8.	Cen	78' means-'Society Family Husbandry', '574' means nsus shop', then- Which code has been used for 'Health'? 7	– 'Hu (2)	usbandry Health Control', '342' means-'Health			
	(3)			None of these			
9.		ections –In the following question one word is differer ne group	nt fron	m the rest. Find out the word which does not belong			
		KMNO PRST	٠,	ABDE UWXY			
10.	(1)	Magazine' is related to 'Editor' in the same why 'Drai Hero Co-actor	ma' is (2) (4)	s related to what? Heroine None of these			
11.	(?)	ections–In the following question a series is given. W ? A, W13C, ?, Q9G, N7I.	hich (one of the alternative will replace the question-mark			
	(1)	T12F T11E	(2) (4)	R11F R13D			
12.	tern	ection – In the following question one number-series in. 2, 19, 33, 47, 75, 104.	is giv	en in which one term is wrong. Find out the wrong			
	(1) (3)	33	(2) (4)	47 104			
13.	Directions – In the following question a letter-series is given, in which some letters are missing. The missing letters are given in the proper sequence as one of the alternatives. Find the correct alternative.						
		сса—ссса—асссс—ааа. саас сааа	(2) (4)	ccaa None of these			

14.	 (1) Umesh was next to first man. (2) Roophesh took food after the man who was before Vipul (3) Rakesh was the last man to the food 					
	(a) Who was the first and last men to take food?(1) Mukesh and Roopesh(3) Umesh and Mukesh	(2) Roopesh and Rakesh(4) Mukesh and Rakesh				
15.	In a clock, the time is 7: 30 am. The clock is so place will be minute hand facing?	d that its hour hand is facing North West. In which direction				
	(1) South (3) North East	(2) East (4) West				
16.	Anjani. Mahedra is not the neighbour of Anjani. Anil is neighbour of Mahendra?	d sitting in a row. Neither Anil is neighbour of Anand nor of s the neighbour of Alok. If Alok is just in the middle, who is				
	(1) Anand (3) Anil	(2) Alok(4) Can not be determined				
17.	Manish goes 7 km towards South–East from his house km towards North West and in the end he goes 9 km (1) 14 km (3) 2 km	se, then the goes 14 km turning to West. After this he goes 7 towards East. How far is he from his house? (2) 7 km (4) 5 km				
18.		Then he goes 3 km after turning to his right. After this he m after turning to his left. How far and in what direction is he				
	(1) 4 km, West (3) 9 km, East	(2) 7 km, East(4) 7 km, West				
19.	How many 3,s are there in the following number serie an even number? 3425315213673182785391345235435	es, which are preceded by an odd number but not followed by				
	(1) One (3) Three	(2) Two (4) Four				
20.	How many 4's are there in the following number-seri 23423425473243192547547234529546	es which are preceded by 5 but not followed by 7?				
	(1) One (3) Three	(2) Two (4) Four				
21.		om a but stand. An enquiry clerk told a passenger that the s will leave at 10.45 a.m. At what time did the enquiry clerk				
	(1) 10.05 a.m. (3) 10. 35 a.m.	(2) 9.55 a.m. (4) 10.15 a.m.				
22.	How many D's are there in the following letter-series, KDRMBSKDQKRBLKDQMQDKEFQDK	which are preceded by K and followed by Q?				
	(1) 4 (3) 1	(2) 2 (4) 3				
23.		From there he walked 50 metres after turning to his left. How far and in what direction is he now from his starting.				
	(1) 40 m, North (3) 10 m, East	(2) 50 m, West(4) 10 m, West				
24.		From there he goes 100 m towards West. Here is the house which is in the South-West direction from Shyam's house. If w far is the market form Raman's house? (2) 150 m (4) None of these				

25. In each question of the following two statements are given and four conclusion I, II, III and IV are given under them. The given statements may be contrary to the universal opinion, even then you have to assume them as true. Then decide which conclusion on the basis of given statement is logically valid.

Statements: All sages are kind.

All artists are kind.

Conclusions:

- I. All sages are artists.
- II. All artists are sages.
- III. Some kind (persons) are sages.
- IV. Some kind (persons) are artists.
- (1) Only III and IV

(2) Only II and III

(3) Only IV

(4) None of these

26. In the following each question there are two statements and two conclusion I and II there-after are given. Accept the given statements as true even if they are inconsistent with known facts and ignoring the universally known facts find out which conclusion follows logically from the given statements.

Give answer (1) if only the conclusion I follows.

Give answer (2) if only the conclusion II follows.

Give answer (3) if either the conclusion I or the II follows.

Given answer (4) if neither the conclusion I nor the II follows.

Statements: No man is crippled.

All crippled (things) are beasts. Conclusions:

- I. Some beasts are crippled.
- II. Some men are beasts.

27. Pointing to a lady in the photograph Kaushal said, "She is the daughter of the daughter of the only son of my ground father. " How is the lady related to Kaushal?

(1) Sister

(2) Maternal aunt

(3) Niece

(4) Cousin

28. If P x Q means – 'P is the brother of Q', P ÷ Q means 'P is the son of Q' and 'P –Q' means 'P is the sister of Q', then which of the following relations will shown that Q is the maternal uncle of P?

(1) $Q \times R \div P$

(2) Q ÷ R – P (4) P ÷ R – Q

(3) $P \times R - Q$

If + means x, x means +, - means ÷ and ÷ means -, then -

 $16 \times 2 \div 4 + 7 - 8 = ?$

(1) 31

29

(2) 29/2

(3) 43/2

(4) 15

30. If 'p' means '-', 'q' means '+', 'r' means '+' and 's' means 'x', then -

16p4q5s8r2 = ?

(1) -8

(2) 32

(3) 20

(4) 12

Directions: (31-32) In each of the following questions one statement or advertisement is followed by two or three assumptions. One the basis of the statement choose which is/are implicit.

31. Statement— "We are feeling pleasure in extending the working hours of our office to 7.30 p.m." A general notice by a working office.

Assumptions:

- I. It would have been done inspite of workers' opposition.
- II. It was needed to extend the working hours.

(1) Only I is implicit

(2) Only II is implicit

(3) Either I or II is implicit

(4) Neither I nor II is implicit

32. Statement –The residents of the locality wrote a letter to the Corporation requesting to restore normalcy in the supply of drinking water immediately as the supply at present is just not adequate.

Assumptions:

- I. The Corporation many not take any action on the letter.
- II. The municipality has enough water to meet the demand.
- III. The water supply to the area was adequate in the past.
- (1) Only II is implicit

(2) Only III is implicit

(3) Only I and III are implicit

(4) Only I and II are implicit

33. Directions –In the question a statement followed by two arguments is given. You have to decide which of the given statements is a strong argument and which is weak argument. Give answer (1) if only first argument is strong, given answer (2) if only second argument is strong, given answer (3) if either first or second argument is strong and given answer.

Statement — should competitive examination for selecting candidates for jobs, be of objective test only?

Arguments:

- I. Yes, the assessment of objective test is reliable.
- II. No, the number of questions to be answered is always very large.

Directions (34-36): Read the following information carefully and answer the questions given below:

- (i) There are five buildings –A, B, C, D and E in a row facing towards East but not necessarily in the same order. Five other buildings P, Q, R, S and T are in another row facing towards West. The buildings in each row are arranged infront of one another.
- (ii) B is at one of the end. There is only C between B and D. A is to the immediate left of D.
- (iii) R is just opposite to C and is between P and Q. S is to the immediate right of P.

34.	\M\hich of the	following pairs	ic a hoth tha	ande in anv	of the two rows?
J 4 .	VVIIICH OF LIIC	TUTIOWITIU DATE	i io a Dulli liic	CHUS III AHV	OLLIE LWO LOWS:

(1) B and A

(2) Q and S

(3) P and T

(4) B and E

35. A is in front of which of following buildings?

(1)

(2) P

(3) T

(4) Q

36. Which of the following buildings is infront of building E?

(1)

2) R

(3)

(4) None of these

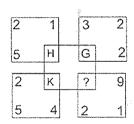
37. **Directions**: Out of nine cells of the a square one cell is left bank, and in the rest of the cells numbers are written which follow some rule. Get the rule and find out the proper option for the blank cell(?)

	4	9	20
į	8	5	- 14
	10	3	?

(1) 8 (3) 14 (2) 11

(4) 1

38.



(1) O

3) M

(2) L

(4) Q

39. OQNEDRRNQ is a code for PROFESSOR, DMSDQDC is a code for

(1) ENTERED

(2) ARRIVED

(3) SLIPPED

(4) RETURNED

40. Which of the following diagrams indicates the best relation between Women, Mothers and Engineers?

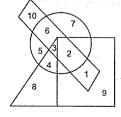
(1)

(2)

(3)

(4)

41. In the following diagrams the boys who are athlete are disciplined are indicated by the which number?



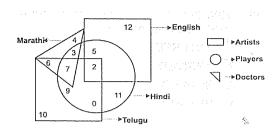
___-→Boys O -→Athlete

(1) 1

(2) 2

(4) None of these

Directions: In the following figure small square represents the persons who know English, triangle to those who know Marathi, big square to those who know Telugu and circle to those who know Hindi. In the different regions of the figures from 42 to 45 are given.



42.	How many	nersons can	sneak English	and Hindi hoth	the languages	only?
4 2.	1 IOW IIIally	persons can	Speak Liigiisi	and i iiildi boli	i ilie laliyuayes	Office :

5 (1)

8

(4) 18

43. How many persons can speak Marathi and Telugu both?

(1) 10

(2)11

(3) 13

(4) 15

44. How many person can speak only English?

(1) 9

(2)12

(3) 7

(4) 19

45. How many persons can speak English, Hindi and Telugh?

(1) 8

(2)

(3) 7

(4) 10

Directions: -(45-50) Seven students A, B, C, D, E, F, G are standing in a straight line as follows

- C is standing between A and G
- B is standing to the left of E 2.
- G is standing between C and E 3.
- D and F are the right of C

46. Who is standing exactly in the middle?

(1)

Ε (3)

(4) D

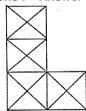
Who is standing to the extreme left?

(1) G

(3) B

Ε

Directions: - Answer the questions (48-50) based upon the figure



48. How many squares are there in the given figure.

(1) 5

(2) 6

How many rectangles (excluding squares) are there in the given figure. 49.

(1) 3

(2) 5 (4)

13

- How many triangles are there in the given figure. 50.
 - (1) 32

41 (2)

37 (3)

(4) 39

ANSWERS

1.	2	2. 4	3. 1 4. 2	5. 4
6.	1	7. 4	8. 2 9. 2	10. 4
11.	3	12. 4	13 . 3 14 . 4	15. 4
16.	3	17. 4	18. 2 19. 3	20. 1
21.	4	22. 2	23. 2 24. 4	25. 1
26.	1	27. 3	28. All Options are wrong 29. 2	30. 2
31.	2	32. 4	33. 1 34. 4	35. 1
36.	3	37. 2	38. 2 39. 1	40 . 1
	•			
41.	2	42. 1	43. 3 44. 2	45. 2