STATE LEVEL NATIONAL TALENT SEARCH EXAMINATION, 2017 MENTAL ABILITY AND SCHOLASTIC APTITUDE TEST

For Class X

Part – I MENTAL ABILITY TEST

Questions 1-5 : Complete the Series

1.	FLP, INS, LPV, ? (1) UHG	(2) ORY	(3) RPO	(4) PSX
2.	D-4, F-6, H-8, J-10, (1) M-14	? (2) K-13	(3) L-12	(4) S-21
3.	AB, BA, ABD, DBA, (1) SRQP	PQRS, ? (2) OYRB	(3) RPOS	(4) SXRG
4.	25, 49, 89, 145, 217 (1) 305	, ? (2) 327	(3) 309	(4) 303
5.	0, 2, 2, 3, 3, 5, 8, 4, (1) 6	10, (?), 5, 17 (2) 7	(3) 9	(4) 15

Questions 6-10 : There are Eight persons E, F, G, H, I, J, K and L are seated around a square table – two on each side. There are three lady members and they are not seated next to each other. J is between L and F. G is between I and F. H, a lady member is second to the left of J. L, a male number, is seated opposite of E, a lady member. There is lady member between F and I.

6.	Who among the follow (1) F	wing is seated betwee (2) I	n E and H? (3) J	(4) None of these	
7.	How many persons a (1) One	re seated between K a (2) Two	and F? (3) Thee	(4) cannot to determined	
8.	Who among the follow (1) E, G and J	wing are the three lady (2) E, H and G	/ members? (3) G, H and J	(4) cannot to determined	
9.	Who among the follow (1) G	wing is to the immedia (2) I	te left of F? (3) J	(4) cannot to determined	
10.	Which of the following is true about J? (1) J is a male member (3) Sex of J cannot be determined		(2) J is a female member(4) Position of J cannot be determined		
11.	Find the letter to be p	laced in '?' of the figur 3 4 5 L 7 P 1 8	e given. 9 6 S 4 ? 2 8 3		
	(1) Q	(2) N	(3) M	(4) R	

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12. In the figure, the circle represents youth, the triangle represents footballers and the rectangle represents athletes.

Which letter(s) represent(s) athletes among youths who are not footballers?



Six men R, S, T, U, V and W sat around circular table playing cards. It was noticed that no two men, the initial letters of whose names are adjacent in the alphabetical order, sat next to each other. U was opposite of R. V was not to the immediate right of R.

19.	Who sat to the immediate left of R ?				
	(1) S	(2) T	(3) V	(4) W	

- 20. Who sat to the immediate right of R ? (1) S (2) T (3) V (4) W
- I am facing South. I turn right and walk 20 m. Then I turn right again and walk 10 m. Then I turn left and walk 10 m and then turning right walk 20 m. Then I turn right again and walk 60 m. In which direction am I from the starting point ?

 (1) North
 (2) Northwest
 (3) East
 (4) Northwest
- A walks 10 metres towards East and then 10 meters to his right. Then every time turning to his left, he walks 5, 15 and 15 meters respectively. How far is he now from his starting point?
 (1) 5 meters
 (2) 10 meters
 (3) 15 meters
 (4) 20 meters

Question 23-27 : In these questions pair of words/letters/numbers to the left/right of : : have certain relationship with each other. You are required to select the correct alternative so that similar relationship is established to the right/left of : :

23.	MANTEL : NAMLET (1) NAVYIT	: : VANITY : ? (2) NAVYTI	(3) NAVIYI	(4) AVNTIY
24.	5:18:: ? (1) 30:96	(2) 21 : 66	(3) 19 : 61	(4) 11 : 35
25.	Heart : Blood : : Lun (1) Oxygen	g : ? (2) Chest	(3) Purification	(4) Air
26.	APOC : ? : : ITSK : MVUN (1) DRQH (2) ERQF		(3) EQRG	(4) DQRH
27.	Engineer : Machine : : ? (1) Doctor : Disease (3) Doctor : Hospital		(2) Doctor : Medicine (4) Doctor : Body	e

28. Choose the cube from the options that will unfold to give the figure given below



29. How many triangles are there in the figure below ?



Downloaded From :http://cbseportal.com/

- 30. In the given question choose the correct mirror image from amongst the four alternatives.
 50JA32DE06

 (1) 20°CVE5DE09
 (2) 20°CVE5DE09
 - (3) 50JA32DE09

- (5) 50JA32DE06 (5) 50JA32DE06
- 31. Find out the correct image in place of question mark (?) from the given alternatives.



Question 32-35 : Study the following figure carefully and answer the questions:

The triangle represents doctors. The circle represents players and the rectangle represents artists.



- 36. If HOME = 2541, SHOP = 8256, WORK = 9573, then code for SMOKE will be (1) 85431 (2) 84531 (3) 83451 (4) 84351
- 37. 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. Who are sitting adjacent to V ?
 (1) R and Q
 (2) B and M
 (3) K and R
 (4) M and K
- 38. Six person A, B, C, D, E and F are standing in a circle. B is between F and A is between E and D, F is to the left of D. Who is between A and F ?
 (1) B
 (2) C
 (3) D
 (4) E

39.	What will be the number of Hexagonals in the given figure ?				
		\leq			
	(1) 2	(2) 4	(3) 5	(4) 6	
40.	abb ab b _ (1) bbbab	bba a (2) babba	(3) abaab	(4) Bbabb	
41.	A person took a loan	of Rs 1500 from his e	mployer for 3 months	at 12% per annum simple interest.	
	The amount he has to (1) Rs 45	o return is (2) Rs 1500	(3) Rs 1545	(4) Rs 1455	
42.	A wholesaler allows a discount of 20% on the list price to a retailer. The retailer sells at 8% discount on the list price. The profit percent of the retailer is				
	(1) 20%	(2) 15%	(3) 12%	(4) 8%	
43.	A man purchased a b paid Rs. 25000 to the	oundle of cloth, with a shopkeeper. The mo	list price of Rs 20000 ney he got back was :	, and a sales tax of 10% on it. He	
	(1) Rs 22000	(2) Rs 15000	(3) Rs 3000	(4) Rs 2000	
44.	A can complete a pie will complete the same	ce of work in 12 days	and B is 60% more eff	ficient than A. In how many days B	
	(1) 5 Days	(2) 7.5 Days	(3) 6 Days	(4) 8 Days	
45.	A, B & C can complete a piece of work in 6, 12 and 24 days, respectively, Working together, they wi				
	(1) 1/24 Days	(2) 7/24 Days	(3) 3/7 Days	(4) 4 Days	
46.	Find the next number (1) 620	in the sequence 0, 2, (2) 1040	24, 252, (3) 3120	(4) 5430	
47.	A, B, C, D and E are sitting on a bench A is sitting next to B, C is sitting next to D is not sitting next to E, who is sitting on the left end of the bench. C is on the second position from the F. A is to the right of B and E. Counting from the left, in which position is A sitting?				
40		(2) 5			
48.	in years of the young	est one among them.	Their ages are in the	proportion of 1:3:5.vvnat is the age	
	(1) 10	(2) 12	(3) 9	(4) 8	
49.	13 sheeps and 9 pigs were bought for Rs. 1291.85.If the average price of a sheep be Rs. 74. What the average price of a pig				
	(1) 34.65	(2) 48.40	(3) 52.85	(4) 36.65	
50.	What is the sum of th (1) 225	e first 25 natural odd r (2) 425	numbers? (3) 625	(4) 525	

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