

STaRT-2012 SAMPLE TEST PAPER CLASS-VII

Time :	90	min.
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Maximum Marks : 200

GENERAL INSTRUCTIONS

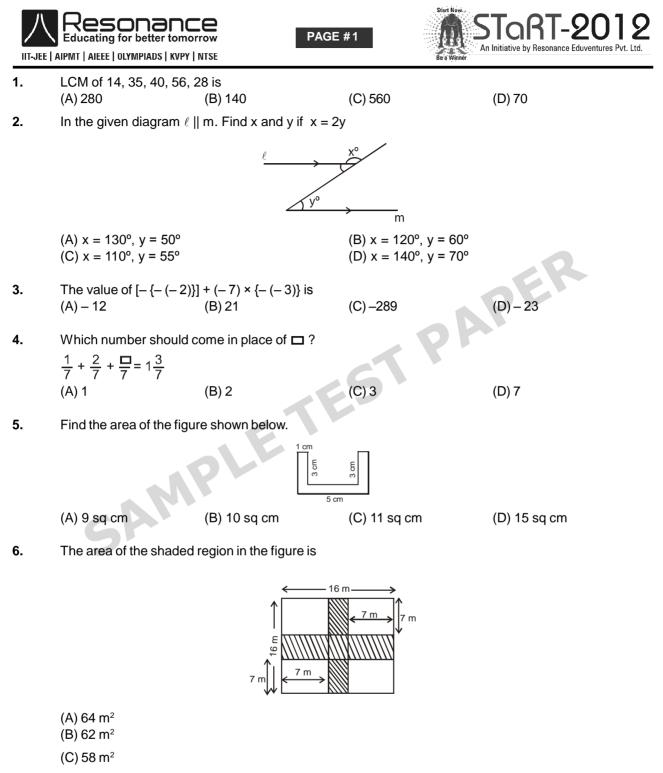
- 1. he question paper contains 50 questions, 15 Questions from Mathematics (1-15), 10 questions from Physics (16-25), 5 questions from Chemistry (26-30), 5 questions from Biology (31-35), and 15 questions from Mental Ability (36-50).
- 2. The OMR sheet given in the examination hall is the Answer Sheet.
- 3. Blank papers, clip boards, log tables, slide rule, calculators, mobile or any other electronic gadgets in any form is not allowed.
- 4. Do not forget to mention your roll number neatly and clearly in the blank space provided in the answer sheet.
- 5. Each Question carries 4 marks. '1' mark will be deduct for each wrong answer. So attempt each question carefully.
- 6. No rough sheets will be provided by the invigilators. All the rough work is to be done in the blank space provided in the question paper.
- 7. In case of any dispute, the answer filled in the OMR sheet available with the institute shall be final.

Name : ____

Roll No. : _____

Resonance Eduventures Pvt. Ltd.

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(D) 60 m²

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7.	If 6(2a – 1) + 8 = 14 the	en the value of 'a' is		
	(A) –1	(B) 3 ¹ / ₁₂	(C) $\frac{4}{10}$	(D) 1
8.	The algebric equation f	or the statement; 'half of a	a number added to 10 is	15' is
	(A) $\frac{x}{2} = 10 + 5$	(B) $\frac{x}{2} + 10 = 15$	(C) $\frac{x}{2} + 15 = 10$	(D) $\frac{x}{2} = 10 + 15$
9.	In the word MATHEMA (A) 4 : 7	TICS, the ratio of number (B) 7 : 4	of consonants to the num (C) 7 : 5	nber of vowels (D) 6 : 5
10.	Study the given table. V the given table ?	/hich equation describes	the correct relationship b	etween the values of x and y in
		2 3	y -1 1 3 5	
	(A) $y = x + 3$	(B) y = x – 3	(C) $y = 2x + 3$	(D) $y = 2x - 3$
11.	numbers is 44, the larg	est number is		rd. If the average of the three
	(A) 24	(B) 72	(C) 36	(D) 48
12.	What least value must (A) 2	be assigned to * so that (B) 3	number 63576 * 2 is divis (C) 4	sible by 8 ? (D) 5
13.	In a two-digit number, number is	the sum of digit is 15. If s	9 is added to the numbe	r, the digits are reversed. The
	(A) 87	(B) 78	(C) 69	(D) 96
14.	Two wires 15 cm and a maximum length of eac	U	e cut into smaller pieces	of equal length. What can be
	(A) 8 cm	(B) 4 cm	(C) 5 cm	(D) 6 cm
15.	By selling a house for F (A) Rs. 1800	Rs. 1980, a man gained 1 (B) Rs.1782	0%. The house was boug (C) Rs.2178	ght for (D) Rs. 1728
16.	The material used to m (A) low resistivity and h (B) high resistivity and (C) low resistivity and lo (D) high resistivity and	high melting point ow melting point	ulb should be of :	



IIT-JEE	Resonance Educating for better tomo	Dependence PAGE		STGRT-2012 An Initiative by Resonance Eduventures Pvt. Ltd.					
17.	There are two bulbs in resistance ? (A) The brighter bulb (C) Both bulbs have sa resistance		ter than the other. Which of the two bulbs has a higher (B) The dim bulb (D) The brightness of bulbs is not linked with its						
18.	Electroplating does no (A) give fine finish to th (C) become hard	•	(B) give shining appearance(D) to protect against corrosion						
19.	The defect of vision in v distant objects clearly (A) Myopia	which person can see but nearly object look blur (B) Astigmatism	irred is : (C) Hypermetropia (D) Presbyopia						
20.	(B) Angle between the (C) Angle between the inc	viation for prism ? flected ray and incident ray reflected ray and refracte ident ray and emergent ray cident ray and refracted ray	d ray.	PER					
21.	If a ray of light travelling (A) $\angle i=0^0$	g along the normal passes (B) $\angle r = 0^0$	s undeflected then : (C) $\angle i = \angle r = 0^0$	(D) All are correct					
22.	-	neter, celsius scale is grac between then. One small (B) 0.02°C		marks which read one degree (D) 2°C					
23.	An iron ball at 40°C is ((A) Flow from iron ball ball		ing water at 40°C the heat will. (B) not flow from iron ball to water or from water to iron						
	(C) flow from water to in	ron ball.	(D) Increase the temperature of both						
24.	If a tin can with a little amount of water is heated up till the water start boiling and its lid is closed putting off the supply of heat energy . Why the shape of tin can distorted when fresh water is poured over it ? (A) because of cheaper quality of tin. (B) because of reduced atmospheric pressure (C) because of reduced pressure inside the can (D) all of these								
25.	Air moves from the re-	gion where the air pressu	ire isto the	region where the pressure is					
	 (A) High, low	(B) low, High	(C) Can't say	(D) depends on the air					
26.	The practice which is n (A) deforestation	ot concerned with soil cor (B) reforestation	nservation is - (C) crop rotation	(D) vegetable cover					
		Space For R	ouah Work						



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27.	A man can tolerate (A) 60 dB	a sound intensity of - (B) 70 dB	(C) 80 dB	(D) 90 dB							
28.	A mixture of alcohol a (A) separating funn (C) simple distilllati			(B) fractional distillation (D) crystallisation							
29.	Sorting of material (A) it makes their s (C) properties of a			(B) any pattern in their properties can be observed (D) All of these							
30.	The metal which ca (A) copper	annot displace hydrogen fro (B) zinc	m an acid is - (C) magnesium	(D) aluminium							
31.	Who wrote the boc observations ever r (A) Anton Van Leeu (C) Sir Christopher	nade? uwenhoek	ins some of the most beautiful drawings of microscopic (B) Robert Hooke (D) Ivan Pavlov								
32.	Raw materials requ (A) CO_2 and H_2O (C) O_2 and chlorop	uired for the process of phot nyll	psynthesis are : (B) Sugar and H_2O (D) Minerals and O_2								
33.	Which is not the co (A) Red blood cells	onstituent of blood ? (B) White blood cells	(C) Platelets	(D) Lymph							
34.	(A) conversion of a(B) nitrogen cycle(C) manufacture of	"Nitrogen fixation" means (A) conversion of atmospheric nitrogen into nitrogen compounds (B) nitrogen cycle in nature (C) manufacture of nitrogen from air (D) liquification of nitrogen									
35.	The oxygen evolve (A) CO_2	d in photosynthesis comes f (B) water	rom (C) temperature	(D) all of the above							
Dire 36.	ction : (36 to 38) Find 101, 100, ?, 87, 7 (A) 92	the missing term(s)— 1, 46. (B) 88	(C) 89	(D) 96							
37.	(ABC) – 6, (DEF) – (A)(KLM) – 34	- 15, (GHI) – 24, ? (B) (JKM) – 33	(C) (LKJ) – 33	(D) (JKL) – 33							
38.	12 18 30 16 30	$\begin{array}{cccccccccccccccccccccccccccccccccccc$									
	(A) 48	(B) 9	(C) 44	(D) 64							

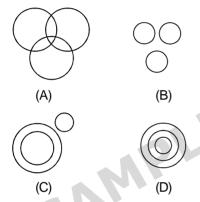






(D) Floor

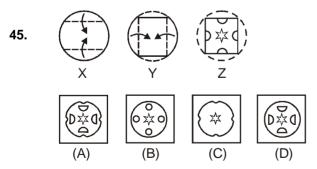
- 39. A meaningful word starting with A is made from the first, the second, the fourth, the fifth and sixth letters of the word **CONTRACT**, which of the following is the middle letter of the word? (A) C (B) T (C) O (D) R
- 40. If Anil is the brother of the son of Sunil's son, what is the relationship between Anil and Sunil? (A) Cousin (B) Brother (C) Nephew (D) Grandson
- 41. One evening before sunset two friends Amit and Sunil were talking to each other face to face. If Sunil's shadow was exactly to his left side, which direction was Amit facing ? (A) North (B) South (C) West (D) Data inadequate
- 42. Bank is related to 'Money' in the same way as 'Transport' is related (A) Goods (B) Road (C) Terrace
- TESTPAP 43. Select the diagram that best represents the given relationship Clever, Punctual, Poor



How many triangles does the figure have ? 44.



Direction : (45) A sheet has been folded in the manner as shown in X, Y and Z respectively and punched. You have to choose from the alternatives how it will look when unfolded.

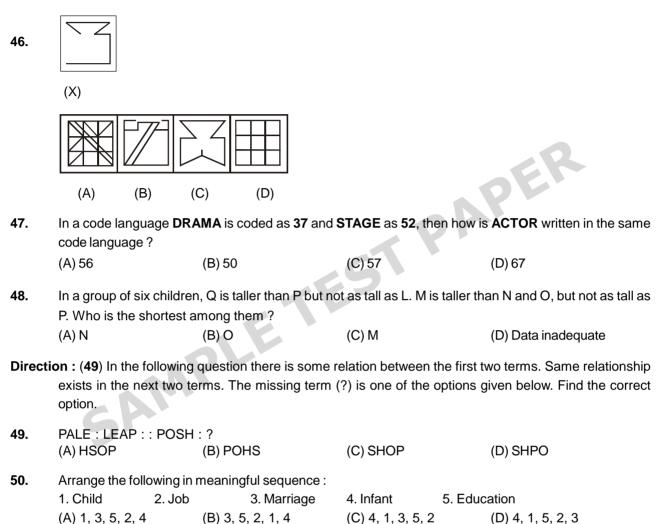








Directions : (46) In the following question, choose the alternative figure in which the question figure (X) is embedded.



ANSWER

Ques.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Ans.	А	В	D	D	С	D	D	В	В	D	В	В	В	С	А
Ques.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Ans.	В	В	С	С	С	D	А	В	С	А	А	С	В	D	А
Ques.	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Ans.	В	А	D	А	В	D	D	С	В	D	А	А	А	С	В
Ques.	46	47	48	49	50							-			
Ans.	Α	С	D	С	D										