

STaRT-2012 SAMPLE TEST PAPER CLASS-VII

Time: 90 min. 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	.:

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1. LCM of 14, 35, 40, 56, 28 is

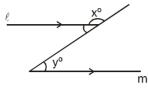
(A) 280

(B) 140

(C) 560

(D) 70

2. In the given diagram $\ell \parallel$ m. Find x and y if x = 2y



- (A) $x = 130^{\circ}, y = 50^{\circ}$
- (C) $x = 110^{\circ}, y = 55^{\circ}$

- (B) $x = 120^{\circ}, y = 60^{\circ}$
- (D) $x = 140^{\circ}, y = 70^{\circ}$
- 3. The value of $[-\{-(-2)\}] + (-7) \times \{-(-3)\}$ is

(A) - 12

(B) 2

(C) - 289

(D) - 23

4. Which number should come in place of □?

$$\frac{1}{7} + \frac{2}{7} + \frac{\square}{7} = 1\frac{3}{7}$$

(A) 1

(B)2

(C)3

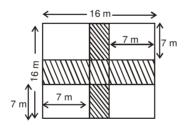
(D)7

5. Find the area of the figure shown below.



- (A) 9 sq cm
- (B) 10 sq cm
- (C) 11 sq cm
- (D) 15 sq cm

6. The area of the shaded region in the figure is



- (A) 64 m²
- (B) 62 m²
- (C) 58 m²
- (D) 60 m²





7.	If $6(2a - 1) + 8 = 14$ then the value of 'a' is										
	(A) –1	(B) $3\frac{1}{12}$	(C) $\frac{4}{10}$	(D) 1							
8.	The algebric equation	on for the statement; 'half o	of 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 MATHEN (A) 4:7	MATICS, the ratio of numb (B) 7:4	er of consonants to the n (C) 7:5	umber of vowels (D) 6 : 5							
10.	Study the given table the given table?	e. Which equation describe	es the correct relationship	between the values of x and y in							
		x 1 2 3 4	-1 1 3								
	(A) $y = x + 3$	(B) $y = x - 3$	(C) $y = 2x + 3$	(D) $y = 2x - 3$							
11.	Of the three numbe numbers is 44, the la		st and is also thrice the	third. If the average of the three							
	(A) 24	(B) 72	(C) 36	(D) 48							
12.	What least value mu (A) 2	ust be assigned to * so th (B) 3	at number 63576 * 2 is di (C) 4	visible by 8 ? (D) 5							
13.	number is	-		ber, the digits are reversed. The							
	(A) 87	(B) 78	(C) 69	(D) 96							
14.	Two wires 15 cm ar maximum length of e (A) 8 cm		be cut into smaller piece (C) 5 cm	es of equal length. What can be (D) 6 cm							
15.	. ,	or Rs. 1980, a man gainec	, ,	, ,							
	(A) Rs. 1800	(B) Rs.1782	(C) Rs.2178	(D) Rs. 1728							
16.	(A) low resistivity and	nd high melting point d low melting point	bulb should be of :								
		Snace For	· Rough Work								





		Snace Fr	or Rouah Work							
26.	The practice which is (A) deforestation	s not concerned with soil (B) reforestation	conservation is - (C) crop rotation	(D) vegetable cover						
	(A) High, low	(B) low, High	(C) Can't say	(D) depends on the air						
25.	Air moves from the	region where the air pre	essure isto the	ne region where the pressure is						
	(A) because of chea		` '	? eed atmospheric pressure						
24.	off the supply of hea	it energy .	·	oiling and its lid is closed putting						
	(A) Flow from iron batball(C) flow from water to		(B) not flow from iron (D) Increase the tem	ball to water or from water to iron perature of both						
23.			taining water at 40°C the h							
22.		ometer, celsius scale is one someter, celsius scale is one some (B) 0.02°C		er marks which read one degree (D) 2°C						
21.	If a ray of light travell (A) $\angle i=0^0$	ing along the normal pas (B) $\angle r = 0^0$	sses undeflected then : (C) $\angle i = \angle r = 0^0$	(D) All are correct						
20.	(B) Angle between the (C) Angle between the	deviation for prism? reflected ray and incident r ne reflected ray and refra ncident ray and emergent r incident ray and refracted i	acted ray. ay							
19.		n which person can see ly but nearly object look (B) Astigmatism	blurred is : (C) Hypermetropia	(D) Presbyopia						
18.	Electroplating does (A) give fine finish to (C) become hard	•	(B) give shining appe (D) to protect agains:							
17.	There are two bulbs resistance? (A) The brighter bulb (C) Both bulbs have resistance	•	(B) The dim bulb	ich of the two bulbs has a higher of bulbs is not linked with its						





27.	A man can tolerate a (A) 60 dB	a sound intensity of - (B) 70 dB	(C) 80 dB	(D) 90 dB					
28.	A mixture of alcohol an (A) separating funnel (C) simple distillation		(B) fractional distillation (D) crystallisation						
29.	Sorting of materials (A) it makes their stu (C) properties of a su		(B) any pattern in their properties can be observed (D) All of these						
30.	The metal which can (A) copper	nnot displace hydrogen from (B) zinc	an acid is - (C) magnesium	(D) aluminium					
31.	Who wrote the book observations ever ma		ns some of the most beau	utiful drawings of microscopic					
	(A) Anton Van Leeuw (C) Sir Christopher V	venhoek	(B) Robert Hooke (D) Ivan Pavlov						
32.	Raw materials require (A) CO ₂ and H ₂ O (C) O ₂ and chlorophy	red for the process of photos	synthesis are : (B) Sugar and $\rm H_2O$ (D) Minerals and $\rm O_2$						
33.	Which is not the con (A) Red blood cells	stituent of blood ? (B) White blood cells	(C) Platelets	(D) Lymph					
34.	"Nitrogen fixation" m (A) conversion of atn (B) nitrogen cycle in (C) manufacture of n (D) liquification of nit	nospheric nitrogen into nitro nature itrogen from air	gen compounds						
35.	The oxygen evolved (A) CO ₂	in photosynthesis comes fro (B) water	om (C) temperature	(D) all of the above					
	tion : (36 to 38) Find th								
36.	101, 100, ?, 87, 71, (A) 92	46. (B) 88	(C) 89	(D) 96					
37.	(ABC) – 6, (DEF) – 1 (A)(KLM) – 34	15, (GHI) – 24, ? (B) (JKM) – 33	(C) (LKJ) – 33	(D) (JKL) – 33					
38.		32 40 36 18 34							
	(A) 48	(B) 9	(C) 44	(D) 64					

Space For Rough Work





39.		rd starting with A TRACT , which of (B) T				urth, the fifth and sixth lette ord ? (D) R	ers
40.	If Anil is the broth (A) Cousin	ner of the son of S (B) Broth		nat is the relation (C) Nephew	onship betw	een Anil and Sunil? (D) Grandson	
41.		ore sunset two fri actly to his left sid (B) South	e, which direc			h other face to face. If Sun (D) Data inadequate	il's
42.	Bank is related to (A) Goods	o 'Money' in the s (B) Road	•	'Transport' is r (C) Terrace	related	(D) Floor	
43.	Select the diagra Clever, Punctual	ım that best repre , Poor	sents the give	en relationship		PE	
		00		51	Ph		
	(A)	(B)					
44.	(C) How many triang	(D) les does the figur	e have ?				
		· · · · ·					
	(A) 15	(B) 16		(C) 17		(D) 18	
Direction		has been folded oose from the al				respectively and puncheded.	ed.
45.	X X	\overline{z}					
	(A) (E		(D)				
			0	Payah Mark			



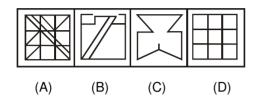


Directions: (46) In the following question, choose the alternative figure in which the question figure (X) is embedded.

46.



(X)



- 47. In a code language **DRAMA** is coded as **37** and **STAGE** as **52**, then how is **ACTOR** written in the same code language?
 - (A) 56
- (B) 50
- (C)57
- (D) 67
- 48. In a group of six children, Q is taller than P but not as tall as L. M is taller than N and O, but not as tall as P. Who is the shortest among them?
 - (A) N
- (B) O
- (C) M
- (D) Data inadequate

Direction : (49) In the following question there is some relation between the first two terms. Same relationship exists in the next two terms. The missing term (?) is one of the options given below. Find the correct option.

- **49.** PALE : LEAP : : POSH : ?
 - (A) HSOP
- (B) POHS
- (C) SHOP
- (D) SHPO

- **50.** Arrange the following in meaningful sequence :
 - 1. Child
- 2. Job
- 3. Marriage
- 4. Infant
- 5. Education

- (A) 1, 3, 5, 2, 4
- (B) 3, 5, 2, 1, 4
- (C) 4, 1, 3, 5, 2
- (D) 4, 1, 5, 2, 3

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