

STAR (STUDENT TALENT ACADEMIC REWARD)



SAMPLE PAPER

Time: 90 Min.

Max. Marks: 90

GENERAL INSTRUCTIONS

TEST PATTERN										
Time	Total No. of	Subject/Question	Type	Total Marks : 90						
	Questions	Segregation		Correct Negative						
90 Minutes	1-90	Physics (1-10) Chemistry (11-20) Biology (21-30) Mathematics (31-55) Social Science (56-65) Mental Ability (66-80) English (81-90)	Objective Question	1 Mark	0.25 Mark					

1.	A student has to write his/her answers in the OMR sheet by darkening the appropriate bubble with the help						
	Of Ball pen only as the correct answer(s) of the question attempted.						
2.	Blank papers, clip boards, log tables, slide rule, calculators, mobile or any other electronic gadgets in						
	any form is not allowed.						
3.	Write your Name & Roll No. in the space provided in the bottom of this booklet.						
4.	4. Before answering the paper, fill up the required details in the blank space provided in the OMR sheet.						
5.	5. In case of any dispute, the answer sheet available with the institute shall be final.						
6.	In case of tie the younger in age will get top rank						
۲ ا	IAME OF THE CANDIDATE :						
	Signature of the Candidate Signature of the Invigilator						
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1. PHYSICS

	This section contains 1 which ONLY ONE is co	O questions. Each quest prrect.	ion has 4 choices (A), (B), (C) and (D) for its answer, out of		
1.	20kg/m ² is equivalent to (A) 20 g/cm ²	o (B) 2000 g/cm ²	(C) 2 g/cm ²	(D) 0.02kg/m ²		
2.	500N/kg is equivalent t (A) 0.5 N/g	o (B) 5000 dyne/g	(C) 50000 dyne/ g	(D) Both A & C		
3.	If temperature of a bod (A) 75 °F	y increases from 250K to (B) 75K	(to 325K ,then change in temperature of the body is (C) 75°C (D) both B &C			
4.	Two threads of length 2 (A) 7.2cm	2.2cm & 5mm are conne (B) 7.2mm	cted end to end then tpta (C) 2.7cm	al length of combination is (D) 27cm		
5.	A ray of light is incident (A) 0° (C) Will not be reflected	normally on a plane mir	or. The glance angle of reflection will be (B) 90° (D) None of the above			
6.	Which of the following ((A) Plane mirror (C) Concave mirror	can produce a real image	e (B) Convex mirror (D) All the above			
7.	SI unit of wavelength is (A) second	; (B) cm	(C)m	(D) Hz		
8.	What kind of motion is (A) Oscillatory motion	executed by a pendulum (B) Linear motion	of a wall clock? (C) Circular motion	(D) None of these		
9.	Which letters of English (A) I, O, U	n alphabet will not show l (B) N, Z, X	ateral inversion? (C) I, X, E	(D) A, E, I		
10.	Light year is the unit of (A) Time	(B) Distance	(C) Speed	(D) None of these		
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2. CHEMISTRY

This section contains 10 questions. Each question has 4 choices (A), (B), (C) and (D) for its answer, out of which ONLY ONE is correct.

11.	Cat <mark>erpillars spin their c</mark> (A) Pup <mark>a</mark> stage	ocoons at which stage? (B) Moth stage	(C) Both (A) & (B)	(D) None of these
12.	Jute is obtained form w (A) Leaves	hich part a patsun? (B) Root	(C) Stem	(D) Both (A) and (C)
13.	is a cellu (A) Cotton	ulose fiber. (B) Wool	(C) Silk	(D) None of these
14.	Which of the following i (A) NaOH	s a base and not an alka (B) KOH	li? (C) Fe(OH)₃	(D) None of these
15.	Which of the following i (A) Acetic acid	s a strong acid? (B) Citric acid	(C) Nitric acid	(D) Tartaric acid
16.	Which of the below turr (A) NaOH	ns blue litmus red? (B) HCl	(C) H ₂ SO ₄	(D) Both (B) and (C)



17.	Slow eating away of iro (A) Galvanisation	n articles in the presence (B) Crystalliston	e of moist air is called (C) Rusting	(D) Neutralisation					
18.	Which of the following is (A) Digestion of food	s a physical change (B) Boiling of an egg	ange an egg (C) Making a cup of tea (D) None of these						
19.	Mass of a proton is (A) 1.6725×10^{-24} gm	(B) 1.75 × 10 ⁻²⁴ gm	(C) 9.109×10^{-28} gm	(D) 1.602 × 10 ^{−19} gm					
20.	Atomic number (z) equa (A) Number of neutron	als to (B) Number of proton	(C) Both (A) and (B)	(D) None of these					
		3. BI	OLOGY						
	Straight Objective Type This section contains 10 questions. Each question has 4 choices (A), (B), (C) and (D) for its answer, out of which ONLY ONE is correct.								
21.	An adaptation is: - (A) A place where an organism lives. (B) A characteristic that improves the organism's ability to survive. (C) A stage in an animal's life cycle. (D) A characteristic the prevents an organism's ability to survive.								
22.	A place where an organ or light needed to surviv (A) A habitat	nism or group of organisr ve is called (B) A metamorphosis	ns live and obtain food, a (C) An adaptation	air, water, shelter or space, (D) Locomotion					
23.	Some animals begin as shape, or growth of nev (A) Metamorphosis	an egg and then underg v structures. This is calle (B) Adaptation	go changes in their life cy d (C) Birth	cle, such as in appearance, color, (D) Camouflage					
24.	Some animals have special adaptations for living in their particular habitat. For example, in a <i>cold</i> habitat animals may have (A) Blubber (B) Gills (C) Venom (D) Wings								
25.	Nocturnal animals (A) Seek food during th (C) Sleep during the da	e day y	(B) Sleep during the night (D) Do not sleep						
26.	Soil differs according to (A) colour	their (<mark>B)</mark> Texture	(C) Aeration	(D) All					
27.	Which of the following h (A) Sandy	nave maximum water hol (B) Clay	ding capacity (C) Loamy	(D) None					

- **28.**Large scale planting of trees is called
(A) Afforestation(B) Defforestation
- 29. During extreme aridity desert rat (A) Stores water (C) Saves water
- **30.** In aerial animal forelimb are modified into (A) Wings (B) Hind limbs

(B) Uses metabolic water(D) Don't use water

(C) Soil erosion

(C) Body (D) air chambers

(D) Soil Pollution



4. MATHEMATICS

Straight Objective Type

This section contains 25 questions. Each question has 4 choices (A), (B), (C) and (D) for its answer, out of which **ONLY ONE** is correct.



40.	The sum of two angles	of a triangle is half of a	right angle and their di	fference is 1° more than $\frac{2}{5}$ th of a
	right angle, then smalle (A) 4°	st angle of the triangle is (B) 41º	: (C) 40º	(D) 3º
41.	One of the angles of a	triangle is 74º and the ot	her two angles are equa	al. Find the measure of each of the
	equal angles (A) 58°	(B) 100°	(C) 53°	(D) 116º
42.	Which of the following c (A) 4 cm, 5 cm, 6 cm	an be the sides of a right (B) 2.5 cm, 6cm, 1.5 cm	t triangle. (C) 1.5 cm, 2 cm, 2.5	cm (D) 5cm, 6cm, 7cm
43.	One of the exterior ang	les of a triangle is 72º an	d it interior opposite and	gles are in ratio 4:5. The angles of
	(A) 32° , 40°	(B) 30°, 42°	(C) 28°, 44°	(D) 50°, 22°
44.	The perpendicular line s (A) Median	segment from a vertex a (B) Diagonal	triangle to its opposite si (C) Base	de is called (D) Altitude
45.	XYZ is a triangle right a (A) 38 cm	ngled at 'Y'. If ZX = 25 cr (B) 26 cm	n, YZ = 7cm, XY is (C) 23 cm	(D) 24 cm
46.	If an exterior angle of	a triangle is 108° and or	ne of the interior opposi	ite angle is 38º. The other interior
	(A) 138°	(B) 70°	(C) 60°	(D) 80°
47.	The three angles of a tr (A) 20° , 60° , 100°	iangle are in the ratio 2: 3 (B) 40º, 60º, 80º	3 : 4, then the measure c (C) 40°, 50°, 9°	of three angle are (D) 50°, 60°, 70°
48.	Which one is possible to (A) 6 cm, 3cm, 2 cm, (C) 3cm, 6cm, 7cm,	o have a triangle from the	e following me <mark>as</mark> ures (B) 5.5 cm, 2.5 cm, 2.5 (D) 2cm <mark>, 8</mark> cm, 3cm	cm
49.	An exterior angle of a tr (A) Equal to adjacent ar (B) Smaller than each o (C) Less than its adjace (D) Equal to the sumof	iangle is ngle ine of its interior opposite int angle the two interior opposite a	angle angles	
50.	The two interior opposit	e of an exterior an <mark>gle</mark> of	a triangle is 45° & 63°, t	then the measure of exterior angle
	(A) 100°	(B) 80°	(C) 63º	(D) 108°
51.	In congruent triangles A (A) 60°	BC and DEF, ∠A = ∠E = (B) 50⁰	= 40º, and ∠F = 65º, thei (C)75º	$n \angle B =$ (D) None of these
52.	In the below figure, if Ef	= QR then the congrue	nce rule used for the cor	ngruency of the given triangles is
		D 70°	P	

30

R

(D) SSS

(A) SAS

80

(B) ASA

F

0

(C) None of these

E



53. In the below figure, by which congruence rule the following triangles are congruent?

		B 90°	3.6 cm					
		c	3:601 A					
	(A) ASA	(B)SAS	(C) RHS	(D) None of these				
54.	In triangles ABC and	PQR, $\angle B = 90^\circ$, AC = 8	$3 \text{ cm}, \text{AB} = 3 \text{ cm}, \angle \text{P} =$	90°, PR = 3 cm, QR = 8 cm. By				
	(A) ASA	(B) SSS	(C) RHS	(D) None of these				
55.	The hypotenuse of a ri	ght triangle is 37 cm lon side is	g. If one of the remaining	two sides is 12 cm in length, then				
	(A) 30 cm	(B) 35 cm	(C) 38 cm	(D) None of these				
		5. Socia	al Science					
	Straight Objective Type This section contains 10 questions. Each question has 4 choices (A), (B), (C) and (D) for its answer, out of which ONLY ONE is correct.							
56.	Who among the followi (A) Ibn-battuta	ngs was a foreign travell (B) Kalhan	er? (C) Marco po <mark>lo</mark>	(D) Both a & c				
57.	Ain-i-Akbari gives us au (A) Babar's administrat (C) Akbar's administrat	n insight of ion ion	(B) Hum <mark>ayu</mark> n's adminis (D) Jahangir's administ	tration ration				
58.	The court language of (A) Hindi	the Mughals was (B) Sanskrit	(C) Persian	(D) Urdu				
59.	Epigraphy is knowns a (A) Science of studying (C) Science of studying	s: <mark>} in</mark> scriptions coins	(B) Science of studying (D) none of these	autobiograhies				
60.	Tu <mark>zuk -i</mark> - Jahangiri wa (A) Kalhan	s written by (B) Jahangir	(C) Firdausi	(D) Masum				
61.	Which is not a natural ((A) Desert	ecosystem? (B) Aquarium	(C) Forest	(D) Grass land				
62.	Natural Environment re (A) Abiotic	efers to. (B) Biotic	(C) Both a & b	(D) None of these				
63.	Which domain exist be (A) Lithosphere	tween 5 miles above & 5 (B) Hydrosphere	miles below sea level? (C) Atmosphere	(D) Biosphere				
64.	Which among the follow (A) Landforms are four (B) Lithosphere provide (C) The gravitational for (D) All plants, animals	wing statement is incorre nd on ocean floor e us grazing land orce of earth holds the atr & human being do not de	ct? mosphere around it. epend on their immediate	surroundings.				
65.	The average thickness (A) 10 km	of the lithosphere is abo (B) 200 km	ut (C) 100 km	(D) 1000 km				



6. MENTAL ABILITY

Straight Objective Type This section contains 15 questions. Each question has 4 choices (A), (B), (C) and (D) for its answer, out of which **ONLY ONE** is correct.

66.	Arrange the given words in the sequence in which they occur in the dictionary and then choose the correct sequence.									
	1. Select (A) 1, 2, 4, 5, 3	2. Seldom (B) 2, 1, 5, 4, 3	3. Send (C) 2, 1, 4, 5, 3	4. Selfish 5. Seller (D) 2, 5, 4, 1, 3						
67.	If Letters of alphabet serie (A) K	s are written in reverse way (B) U	then which letter will be se (C) J	venth letter right to Q ? (D) W						
68.	In the word PARADISE	how many pairs of letter	s are there which have a	s many letters between them in						
	(A) None	(B) One	(C) Two	(D) Three						
Directio	ons : (69 to 70) Arrange word is formed.	e the following group si	uch that when arranged	l in a specific order, meaningful						
69.	R T A N U E	1								
	(A) 1,3,2,6,4,5	(B) 3,2,4,6,1,5	(C) 4,3,2,5,1,6	(D) 4,6,5,2 <mark>,3,1</mark>						
70.	VAHYE									
	(A) 2, 3, 4, 5, 1	(B) 3, 2, 5, 1, 4	(C) 3, 5, 2, 1, 4	(D) 1, 5, 2, 3, 4						
71.	If the positions of the fir	st and the sixth letters in	the word 'COMPROMIS	E' are interchanged, similarly the						
	positions of the second the right end ?	and the seventh and so o	nd the seventh and so on, then which of the letters will be the seventh letter from							
	(A) P	(B) R	(C) E	(D) S						
Directio	ons : (72) Arrange the t is formed.	following group such th	at when arranged in a	specific order, meaningful word						
72.	RUSGA									
	1 2 3 4 5 (A) 1, 5, 4, 2, 3	(B) 5, 3, 4, 1, 2	(C) 3, 2, 4, 5, 1	(D) 4, 5, 3, 2, 1						
73.	Wh <mark>ich letter is midwa</mark> y I (A <mark>) L</mark>	petween 22nd letter f <mark>ro</mark> m (B) M	the left and 21st letter fr (C) O	om the right in alphabet series? (D) None of these						
Directio	ons : (74) Arrange the t is formed.	following group such th	at when arranged in a	specific order, meaningful word						
74.	KATCEL	Noung								
	1 2 3 4 5 6 (A) 4, 2, 3, 1, 5, 6	(B) 1, 2, 4, 5, 6, 3	(C) 6, 5, 3, 2, 4, 1	(D) 3, 2, 4, 1, 6, 5						
75.	Find which one word ca	In not be made from the l	etters of the given word.							
	(A) SCALE	(B) PADLOCK	(C) PACKET	(D) DIESEL						
76.	If D = 4 and COVER = ((A) 49	63, then BASIS = ? (B) 50	(C) 54	(D) 55						
77.	In a certain code SOCI (A) EKPTQK	AL is written as TQFMFR (B) EKPQPJ	, then how you will code (C) EKPSPJ	DIMPLE? (D) EKPSOH						
78.	If CARPET is coded as	TCEAPR, then the code	for NATIONAL would be	-						
	(A) NLATNOIA	(B) LANOITAN	(C) LNAANTOI	(D) LNOINTAA						



79.	The following questi A B C D E F G H I J Which alphabet com (A) E	on is based on the follow K L M N O P Q R S T U les immediately before th (B) F	ving alphabetseries. VWXYZ ne sixth alphabet from the (C)G	left extreme of the given alphabets ? (D) U
80.	If ACNE is coded as (A) 5, 31, 21, 25	3, 7, 29 , 11 , then BOIL (B) 5, 31, 19, 25	will be coded as: (C) 5, 29, 19, 25	(D) 5, 29, 19, 27
		7.	ENGLISH	
	This section contain which ONLY ONE is	Straight s 10 questions. Each qu s correct.	t Objective Type estion has 4 choices (A),	(B), (C) and (D) for its answer, out of
Fill in	the blanks with the c	correct answer selectin	g from the given option	s.
81.	Measles bro (A) has	ken out in the city . (B) have	(C) were	(D) are
82.	My brother and I we (A) my	nt to the shop and bump (B) his	ed intouncle. (C) our	(D their
83.	Bangladesh was hit (A) heavy	by a Storm this y (B) heavier	year. (C) heaviest	(D) none
84.	I have mone (A) very	ey to buy a car . (B) too	(C) enough	(D) any
85.	My mother (A) went	to London last week . (B) go	(C) goes	(D) is going
86.	Change into passive (A) The door was op (C) I request to oper	e : "Open the door, please bened. h the door.	e." (B) Let t <mark>he door be o</mark> (D) I told him to open	pened. the door.
87.	We eat so that we (A) should	Live. (B) must	(C) shall	(D) may
88.	<mark>care could h</mark> (A) <mark>A little</mark>	ave prevented the disas (B) Too much	ter. (C) Many a	(D) The
89.	W <mark>ith an</mark> umbrella … (A) on	<mark>. m</mark> y head, I protecte (<mark>B</mark>) above	ed myself from the sun. (C) over	(D) upon
90.	Identify the Kind of g (A) Negative	given sentence. "How tal (B) Imperative	ll the building is!" (C) Interrogative	(D) Exclamatory



CLASS : VII SAMPLE PAPER

ANSWER KEY

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

