THE Code -RADIANT Igniting Young Minds Udaipur SAMPLE PAPER Academic Session : 2022-23 Class : VII FOR STUDENTS MOVING IN CLASS - (VII) IN 2022-23 (PRESENTLY STUDYING IN CLASS-VI IN 2021-22) Duration: 1.5 Hours Max. Marks: 210 Date : 2022-23 **Radiant Scholarship cum Admission Test** Note : Make sure that you have filled your Class (Science + Mathematics) %, Mobile No., Medium of Study, Date of Birth, Category, Board of the School in Objective Response Sheet (ORS). Candidate Name: **Application Form Number** **The Radiant Academy**

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Please read the instructions carefully. You are allotted 5 minutes specifically for this purpose.											
Name of	the Candidate		Reg .	9							
	(GENERAL INSTR		s in ex	AMIN	ATIC	N H/	ALL			
1.	Question pap (36 to 45), Bi	er contains 70 quest ology (46 to 55) & M	ions of Ma ental Abili	thematio ty (56 to	:s (1 to 70), ea	25), I ch que	Physic stion o	s (26 t arry 3 i	o 35), C mark.	hemi	istry
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 Na	me and Roll No. in th	e space pro	ovided in	the bot	tom of	this bo	ooklet.			
4.	Before answering the paper, fill up the required details in the blank space provided in the answer sheet.										
5.	Do not forget to mention your roll number neatly and clearly in the blank space provided in the answer sheet.										
6.	There is no negative marks for wrong answer.										
7.	7. 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.										
8.	8. In case of any dispute, the answer filled in the OMR sheet available with the institute shall be final.										
		٨	MARKING	CRITE	ERIA						
No. of	Questions	Type				Ma	ks				
	Questions	1,100		Correc	t			Incorr	ect	BI	lank
	1–70	Only one correct	Q. No. 1	to 70 (3	Mark e	ach)	No r	negativ	e marks	j.	0
IMPORTANT											
PROCEDURE OF FILLING UP THE ANSWERS IN OMR SHEET											
	Wrong Filling Right Filling										
	A VB C D	Tick mark		A	ОСР	Ful	ly dark	en with	n HB Pe	ncil	
	A XECD	Cross mark		A	рср	Full	y dark	en with	HB Pen	cil	
	A C D	Half filled or se	emi dark	A (рср	Full	y dark	en with	HB Pen	cil	
	BCD Light filled BCD Fully darken with HBPencil										

Best of Luck

1. 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.

1.	The product of t (A) 2500	he place values of two 5' (B) 25	s in 85356 is (C) 25000	(D) 250000
2.	Using digits 7 ar (A) 9739.	nd 9 the greatest 4 – digit (B) 9779.	number is (C) 9977.	(D) 9997.
3.	Which digit mak 58,314,70? is di (A) 4	es the given sentence tru visible by 5. (B) 5	ie? (C) 9	(D) 1
4.	lfa+b+c+d=	= 2012 and b + d = 2013,	what is the value of a – t)+c−d?

(A) -2014 (B) -4 (C) 2014 (D) 2

5. Bobby is sorting some nails by their lengths. The lengths of the nails are $2\frac{1}{2}$ cm , $2\frac{3}{4}$ cm , $3\frac{1}{2}$ cm 1

and $2\frac{1}{4}$ cm. Which of the following statements is correct ?

(A) $2\frac{1}{2} < 2\frac{1}{4} < \frac{3}{4} < 3\frac{1}{2} < 2\frac{3}{4}$	(B) $\frac{3}{4} < 2\frac{1}{4} < 2\frac{1}{2} < 2\frac{3}{4} < 3\frac{1}{2}$
(C) $\frac{3}{4} < 2\frac{1}{2} < 2\frac{1}{4} < 3\frac{1}{2} < 2\frac{3}{4}$	(D) $3\frac{1}{2} < 2\frac{3}{4} < 2\frac{1}{2} < 2\frac{1}{4} < \frac{3}{4}$

- 6.The largest number in the set below is : 0.109, 0.2, 0.111, 0.114, 0.17, 0.19
(A) 0.109(B) 0.2(C) 0.114(D) 0.19
- 7. Rehan attended a basketball camp for two weeks. His parents paid Rs. 50.00, which was 1/3 of the cost of attending the camp. Rehan had saved money to pay the rest of the cost. Which equation can be used to find c, the entire cost of attending the camp?

(A)
$$c = 50 \times \frac{1}{3}$$
 (B) $c = 50 \times 3$ (C) $c = \frac{1}{(50 \times 3)}$ (D) $c = 3 \times \frac{1}{50}$

Re- arrange the digits of 1,02,35,007 to get the largest and the smallest number. The difference between the place values of 2 in these two numbers is
(A) 0
(B) 8,000
(C) 20,000
(D) 18,000

9.	Which of the following will not represent zero?					
	(A) $\frac{0}{2} \times 56$	(B) 5687 × 0	(C) $\frac{1002}{2}$ +0	(D) $\frac{0}{679}$		
10.	In a morning walk, Ga 75 cm respectively. W distance in complete s	rima, Latika and Prerna s /hat is the minimum dist teps?	step off together. Their stance each should walk	teps measure 50 cm, 65 cm and so that all can cover the same		
	(A) 1595 cm	(B) 1955 cm	(C) 1185 cm	(D) 1950 cm		
11.	-101 × = 10)1				
	(A) 1	(B) 0	(C)-1	(D) 100		
12.	A fraction is equivale	nt to $\frac{5}{8}$. Its denominator	and numerator adds u	p to 91. What is the difference		
	between numerator ar	nd denominator of this fra	ction?			
	(A) 21	(B) 33	(C) 13	(D) 19		
13.	A shopkeeper has 150 oil to four customers.) litres of oil in a drum. He How much oil is now left i	e sells 15 L 500 mL, 23 l n the drum?	250 mL, 13 L 750 mL and 29 L		
	(A) 77 L 50 mL	(B) 875000 L	(C) 68 L 500 mL	(D) 975000 L		
14.	Kavya is K years old. in terms of k in 7 years	In 7 years time, her fathe s time?	er's age will be twice her	age. How old will her father be,		
	(A) $\frac{K+7}{2}$ years	(B) $\frac{2K+7}{2}$ years	(C) 2K+7years	(D) 2(K+7)years		
15.	The value of XVI + CC	CVII =				
	(A) CCXXIII	(B) CCCXIV	(C) CCCXXIII	(D) CCCXXV		
16.	The whole numbers f appearing side-by-side	rom 1 to 1000 are writte ?	en. How many of these	numbers have at least two 7's		
	(A) 10	(B) 11	(C) 21	(D) 19		
17.	The sum of the prime	factors of 63 is				
	(A) 4	(B) 8	(C) 10	(D) 14		
18.	Given a pair of numbe (A) -14 is on the left sid (B) -15 is on the left sid (C) the numbers can b (D) None of the above	rs -14, -15 , we know tha de of -15. de of -14. be anywhere on the numb	t ber line.			

19.	A bottle is 3/4 full of water. The water in the bottle can fill 5 glasses. If the water in the bottle is poured out to fill 3 glasses. Find the fraction of the water left in bottle.				
	(A) 9/10	(B) 3/5	(C) 9/20	(D) 3/10	
20.	Beena bought 12 kg of much sugar was there	f sugar. After filling 11 o in each container?	containers of the same	size. She had 3.2 kg left. How	
	(A) 0.5 kg	(B) 0.6 kg	(C) 0.7 kg	(D) 0.8 kg	
21.	If the perimeter of a reg	ular hexagon is x metres	(C) (<i>x</i> = 6) metroe	n of its sides is	
	(A) (x + 6) metres	(B) (X ÷ 6) metres	(C) (x - 6) metres	(D) ($6 \div X$) metres	
22.	Mini has some pencils. pencils to each pupil. Si	If she gives 3 pencils to he will have none left. He	each pupil. She will hav ow many pencils does sh	e 20 pencils left. If she gives 4 e have?	
	(A) 40	(B) 60	(C) 80	(D) 120	
23.	Two consecutive intege	rs between which the fra	action $\frac{5}{7}$ lies are :		
	(A) 5 and 6	(B) 0 and 1	(C) 5 and 7	(D) 6 and 7	
24.	Coach Kabir needs to b shirts at 2 stores.	uy 12 T-shirts for the gir	ls basketball team. The l	ist below shows the prices of T-	
	(i) Store X : One T-shir	t costs Rs. 250	200		
	What is the amount of n	nonev coach Kabir will s	ave if he buvs 12 T-shirts	s from store Y?	
	(A) Rs. 600	(B) Rs. 400	(C) Rs. 1650	(D) Rs. 375	
25.	If $\frac{-9}{5} = \frac{a}{20} = \frac{27}{b} = \frac{-45}{20}$, then the values of a, b	and c is		
		05		•	

2. PHYSICS

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.

26 .	The SI unit of time is (A) day.	(B) hour.	(C) second.	(D) minute.
27.	In thermal power plant, (A) Light energy	heat energy is converted (B) Electrical energy.	l into (C) Sound energy	(D) Potential energy.

28.	The number of times a (A) Load (C) Mechanical advanta	machine multiplies the e age	ffort force is its : (B) Effort (D) Work		
29.	Motion of a car on a stra (A) rotatory motion.	aight road is an example (B) rectilinear motion.	of (C) circular motion.	(D) periodic motion.	
30.	When the applied force (A) Energy	causes the displacemer (B) Work	nt, it is known as: (C) Force	(D) Pressure	
31.	Which of the following is (A) A pair of scissors (C) A beam balance	s NOT an example of a I	ever? (B) A spring balance (D) A pair tongs		
32.	A body whose position (A) rest	with respect to surround (B) motion	ngs does not change, is (C) vibration	said to be in a state of : (D) oscillation	
33.	When a body is stationary: (A) there is no force acting on it (B) the body is in vacuum (C) the combination of forces acting on it balance each other (D) the forces acting on it are not in contact with it				
34.	A beam balanced is an (A) inclined plane	example of (B) lever of first type	(C) lever of second type	e (D) lever of third type	
35.	Solar energy can be us (A) Electrical energy	ed to produce: (B) Heat energy	(C) Mechanical energy	(D) All of the above	
		3. CHEI	MISTRY		
	<i>Straight Objective Type</i> 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.				
36.	In following substances (A) Gold	, which is pure substanc (B) Ice candy	e: (C) Salty water	(D) Cake	
37.	Which is leaf fibre? (A) Coir	(B) Jute	(C) Sisal	(D) None	
38.	Objects made of iron ar (A) Co, Ni	e attracted to a magnet. (B) Na, Mg	In addition of iron which (C) Fe, Cu	pair show magnetism (D) Al, P	

39.	Process of making sedi (A) Filtration	mentation of dust particle (B) Loading	es faster is : (C) Decantation	(D) Centrifugation	
40.	The process of twisting (A) Weaving	fibres, by Hand or using (B) Knitting	machine, to obtain threa (C) Sieving	d is called : (D) Spinning	
41.	In following materials w (A) Air	hich are insulators : (B) Wood	(C) Plastic	(D) All of these	
42.	The spinner in washing (A) Evaporation	machine dries clothes w (B) Sedimentation	orks on the principle of : (C) Filtration	(D) Centrifugation	
43.	The fabric made from th (A) Shoddy	ne used wool, by carding (B) Kemp	and spinning is called : (C) Coarse wool	(D) Fleece	
44.	Which of the following a (A) Transparent	llow light to pass through (B) Translucent	n it ? (C) A & B	(D) Opaque	
45.	In following statements which are true : 1. Chalk dissolves in water 2. Oil mixes with water 3. Sand settles down in the water 4. A piece of wood floats on water (A) 1, 3 (B) 2, 4 (C) 3, 4 (D) 1,2				

4. BIOLOGY

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	This section contain answer, out of whic	Straigh ns 10 questions. Eac ch ONLY ONE is cor	<i>t Objective Type</i> ch question has 4 choice rect.	s (A), (B), (C) and (D) for its
46.	The male reproductiv (A) Stamens	e organ of a flower is (B) Pistils	the (C) Petals	(D) Sepals
47.	Goitre is caused due (A) Iodine	to deficiency of (B) Iron	(C) Calcium	(D) None
48.	What do living organi (A) Energy and carbo (C) Protein and Carb	ism produce when oxy on monoxide on monoxide	/gen combine with food ? (B) Energy and carbo (D) energy and sulph	on monoxide ur dioxide
49.	Mango plant is a (A) dicot	(B) Monocot	(C) Both A and B	(D) None
50.	Which of these ingree (A) Honey	dients is not obtained (B) Salt	from plants or animals ? (C) Wheat	(D) Milk

51.	Which of the following is (A) Dog	s best suited in all kind of (B) Kangaroo rat	f climatic conditions ? (C) Polar bear	(D) Bacteria
52.	Onion shows modification (A) Stem	on of which type (B) Root	(C) Leaves	(D) Flower
53.	Which one of the followi (A) Tiger	ng is not a omnivore ani (B) Human	mal ? (C) Bear	(D) Cockroach
54.	Webbed feet is an adap (A) Aerial birds	tation in (B) Reptile birds	(C) Aquatic birds	(D) Ostrich
55.	Fishes, Prawns and Cral (A) Carbohydrates	os are good sources of - (B) Proteins	(C) Fats	(D) Minerals

5. 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.

Directions : (56 to 57) Find the missing number.					
56.	912, 303, 102, 33, ?, 3, (A) 12	2 (B) 10	(C) 8	(D) 6	
57.	1, 4, 9, ?, 25, 36 (A) 11	(B) 19	(C) 21	(D) 16	
Directio	ons : (58 to 59) Find the	missing term.			
58.	BYDW, FUHS, JQLO, N (A) RITG	IMPK, ? (B) RJGH	(C) IRGT	(D) HPIN	
59.	BYCXA, EVFUD, HSIR (A) MNLOL	g, KPLOJ, ? (B) NMOLM	(C) QJRIP	(D) PKQJO	
Directio	ons: (60 to 61) Find the	missing term.			
60.	$2\underbrace{\begin{pmatrix}3\\23\\4\end{pmatrix}}_{5}4$ $3\underbrace{\begin{pmatrix}4\\39\\5\end{pmatrix}}_{6}5$	4 ? 6			
	(A) 120	(B) 59	(C) 62	(D) 22	
61.	$4 \underbrace{\begin{pmatrix} 8 \\ 5 \\ 7 \end{pmatrix}}_{7} 6 18 \underbrace{\begin{pmatrix} 12 \\ 7 \\ 10 \end{pmatrix}}_{10} 9$	$13 \underbrace{6}_{7}^{11}$?			
	(A) 9	(B) 8	(C) 6	(D) 5	

- Directions:(62 to 63) In each of the following questions, a group of letters is given which are numbered 1, 2, 3, 4, 5 and more. They are four alternatives given containing the combinations of these numbers. Select that combination of numbers in which letters arranged accordingly to form a meaningful word.
- 62. RMNBUE 1 2 3 4 5 6 (A) 1,5,4,2,6,3 (B) 2,6,3,4,1,5 (C) 3,5,2,4,6,1 (D) 4,6,3,2,1,5 DIFERN 63. 123456 (A) 1,4,3,6,2,5 (B) 6,4,3,5,2,1 (C) 3,5,2,4,6,1 (D) 5,4,3,2,6,1 In a certain code, INSTITUTION is written as NOITUTITSNI. How is PERFECTION written in that code? 64. (A) NOICTEFREP (B) NOITCEFERP (C) NOITCEFRPE (D) NOITCEFREP If POLITICS is coded as OPILITSC, then ARTICLES will be coded as 65. (B) RAITLCSE (C) NNUHPM (D) NNVHPN (A) RAITLCES A man walked 3 metre towards North, turned West and walked 2 metre then turned North and walked 1 66. metre and finally turned East and walked 5 metre. How far is he from the starting point? (A) 5 metre (B) 8 metre (C) 10 metre (D) 12 metre Amit faces towards North. Turning to his right he walks 25 metre. He then turns to his left and walks 30 67. metre. Then moves 25 metre to his right. He then turns to his right again and walks 55 metre. Finally, he turns to the right and moves 40 metre. In which direction is he now from his starting point? (A) South-West (B) South (C) North-West (D) South-East Directions : (68) Study the given information and answer the following questions. (i) P, Q, R, S T, U and V are sitting in a row facing East. (ii) R is on the immediate right of S. (iii) Q is at an extreme end and has T as his immediate neighbour. (iv) V is exactly between T and U. (v) S is sitting third from the South end. 68. Name the person who is at the third place from the North end. (A) T (B) U (C) V (D) S 69. What is the value of 78 - [5 + 3 of (25 - 2 × 10)]? (D) 979 (A) 58 (B) 120 (C) 920 70. What mathematical operation should come at the place of '?' in the equation $2?6 - 28 \div 7 + 2 = 10$ (A) + (B) – (C) × (D) ÷

Space	for	Rough	Work
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