

Code - 0

SAMPLE PAPER

Academic Session: 2023-24

Class: VII

FOR STUDENTS MOVING IN CLASS – (VII) IN 2023-24 (PRESENTLY STUDYING IN CLASS-VI IN 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
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The Radiant Academy

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<u>Email: Info@theradiantacademy.com | Website: www.theradiantacademy.com</u>



Please read the instructions carefully. You are allotted 5 minutes specifically for this purpose.										
Name of the Candidate:	Reg	. Nun	ber :							
	1	9								

GENERAL INSTRUCTIONS IN EXAMINATION HALL

- 1. Question paper contains 70 questions of Mathematics (1 to 25), Physics (26 to 35), Chemistry (36 to 45), Biology (46 to 55) & Mental Ability (56 to 70), each question carry 3 mark.
- **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 and Roll No. in the space provided in the bottom of this booklet.
- **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. 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. In case of any dispute, the answer filled in the OMR sheet available with the institute shall be final.

MARKING CRITERIA

No. of Questions	Type	Marks						
No. or Questions	Туре	Correct	Incorrect	Blank				
1–70	Only one correct	Q. No. 1 to 70 (3 Mark each)	No negative marks	0				

IMPORTANT PROCEDURE OF FILLING UP THE ANSWERS IN OMR SHEET Wrong Filling Right Filling AVECD Tick mark A O C D Fully darken with HB Pencil A XE C D C D Fully darken with HB Pencil Cross mark A 🛑 C D A C D Half filled or semi dark Fully darken with HB Pencil B C D Light filled B C D Fully darken with HB Pencil

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 the place values of two 5's in 85356 is						
	(A) 2500	(B) 25	(C) 25000	(D) 250000			
2.	Using digits 7 an	d 9 the greatest 4 – digit	number is				
	(A) 9739.	(B) 9779.	(C) 9977.	(D) 9997.			

58,314,70? is divisible by 5. (A) 4(C)9(D) 1 If a + b + c + d = 2012 and b + d = 2013, what is the value of a - b + c - d?

(A) - 2014(B) - 4(C) 2014 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 5.

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

Which digit makes the given sentence true?

(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) $c = 3 \times \frac{1}{50}$

8. 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

3.

4.

(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.	_	. What is the minimum of		r steps measure 50 cm, 65 cm and alk so that all can cover the same				
	(A) 1595 cm	(B) 1955 cm	(C) 1185 cm	(D) 1950 cm				
11.	_101 × = (A) 1	: 101 (B) 0	(C)-1	(D) 100				
12.	A fraction is equive	alent to $\frac{5}{8}$. Its denomina	tor and numerator adds	s up to 91. What is the difference				
	between numerator (A) 21	and denominator of this (B) 33	fraction? (C) 13	(D) 19				
13.	oil to four customer	s. How much oil is now le	eft in the drum?	23 L 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.	in terms of k in 7 ye	ears time?	•	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 +							
	(A) CCXXIII	(B) CCCXIV	(C) CCCXXIII	(D) CCCXXV				
16.	The whole number appearing side-by-s		ritten. How many of the	ese numbers have at least two 7's				
	(A) 10	(B) 11	(C) 21	(D) 19				
17.	The sum of the prin	ne factors of 63 is	·					
	(A) 4	(B) 8	(C) 10	(D) 14				
18.	(A) -14 is on the lef (B) -15 is on the lef	t side of -14. n be anywhere on the nu						
		Space for	or Rough Work					

19.		vater. The water in the bond the fraction of the wat		f the water in the bottle is poured
	(A) 9/10	(B) 3/5	(C) 9/20	(D) 3/10
20.	Beena bought 12 kg much sugar was there	•	containers of the same	e 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 re	gular hexagon is x metre	es , then the length of ea	ach of its sides is
	(A) (x + 6) metres	(B) $(x \div 6)$ metres	(C) (x - 6) metres	(D) (6 ÷ x) metres
22.		s. If she gives 3 pencils t She will have none left. F (B) 60		ave 20 pencils left. If she gives 4 she have? (D) 120
	(7.1)	(2) 00	(3) 33	(5) 120
23.	Two consecutive integ	gers between which the fi	raction $\frac{5}{7}$ lies are :	
	(A) 5 and 6	(B) 0 and 1	(C) 5 and 7	(D) 6 and 7
24.	shirts at 2 stores. (i) Store X : One T-sh (ii) Store Y : A packag		200.	e list below shows the prices of T- rts from store Y? (D) Rs. 375
25.	If $\frac{-9}{5} = \frac{a}{20} = \frac{27}{b} = \frac{-4}{c}$	$\frac{15}{5}$, then the values of a,	b and c is	
	(A) $a = -36$, $b = -15$,		(B) $a = -36$, $b = -15$	
	(C) $a = -30$, $b = -15$,	c = – 36	(D) $a = -15$, $b = -25$	o, C = 25
		2. PH	YSICS	
		Straight Ol	bjective Type	
		ns 10 questions. Each n ONLY ONE is correc	•	es (A), (B), (C) and (D) for its
26.	The SI unit of time is (A) day.	(B) hour.	(C) second.	(D) minute.
27.	In thermal power plant (A) Light energy	t, heat energy is converte (B) Electrical energy.	ed into (C) Sound energy	(D) Potential energy.
		Space for	Rough Work	
		-	J	

28.	The number of times at (A) Load (C) Mechanical advan	a machine multiplies the tage	effort force is its : (B) Effort (D) Work	
29.	Motion of a car on a s (A) rotatory motion.	traight road is an exampl (B) rectilinear motion.		(D) periodic motion.
30.	When the applied force (A) Energy	ee causes the displaceme (B) Work	ent, it is known as: (C) Force	(D) Pressure
31.	Which of the following (A) A pair of scissors (C) A beam balance	is NOT an example of a	lever? (B) Fork (D) A pair tongs	
32.	A body whose position (A) rest	n with respect to surround (B) motion	dings does not change, (C) vibration	is said to be in a state of : (D) oscillation
33.		cting on it		
34.	A beam balanced is a (A) inclined plane	n example of (B) lever of first type	(C) lever of second ty	pe (D) lever of third type
35.	Solar energy can be to (A) Electrical energy	used to produce: (B) Heat energy	(C) Mechanical energ	y (D) All of the above
		3. CHE	MISTRY	
				es (A), (B), (C) and (D) for its
36.	_	es, which is pure substan (B) Ice candy	ce: (C) Salty water	(D) Cake
37.	Which is leaf fibre? (A) Coir	(B) Jute	(C) Sisal	(D) None
38.	Objects made of iron (A) Co, Ni	are attracted to a magne (B) Na, Mg	t. In addition of iron whic (C) Fe, Cu	ch pair show magnetism (D) Al, P

Space for Rough Work

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 the (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	allow light to pass through (B) Translucent	h it ? (C) A & B	(D) Opaque	
45 .	In following statements 1. Chalk dissolves in wa 2. Oil mixes with water 3. Sand settles down in 4. A piece of wood float (A) 1, 3	ater the water	(C) 3, 4	(D) 1,2	
		4. BIO	LOGY		
				(A), (B), (C) and (D) for its	
46.	The male reproductive (A) Stamens	organ of a flower is the (B) Pistils	(C) Petals	(D) Sepals	
47.	Goitre is caused due to (A) Iodine	deficiency of (B) Iron	(C) Calcium	(D) None	
48.	What do living organism produce when oxygen combine with food ? (A) Energy and carbon dioxide (B) Energy and carbon monoxide (C) Protein and Carbon monoxide (D) energy and sulphur dioxide				
49.	Mango plant is a (A) dicot	(B) Monocot	(C) Both A and B	(D) None	
50.	Which of these ingredie (A) Honey	ents is not obtained from (B) Salt	plants or animals ? (C) Wheat	(D) Milk	

Space for Rough Work

	(A) Dog	is best suited in all kind (B) Kangaroo rat	of climatic conditions? (C) Polar bear	(D) Bacteria
52.	Onion shows modificat (A) Stem	tion of which type (B) Root	(C) Leaves	(D) Flower
53.	Which one of the follow (A) Tiger	ving is not a omnivore a (B) Human	animal ? (C) Bear	(D) Cockroach
54.	Webbed feet is an ada (A) Aerial birds	ptation in (B) Reptile birds	(C) Aquatic birds	(D) Ostrich
55.	Fishes,Prawns and Cra (A) Carbohydrates	abs are good sources o (B) Proteins	f - (C) Fats	(D) Minerals
		5. MENTA	AL ABILITY	
				es (A), (B), (C) and (D) for its
Direct	tions : (56 to 57) Find th	e missing number.		
56.	912, 303, 102, 33, ?, 3 (A) 12	s, 2 (B) 10	(C) 8	(D) 6
57.	1, 4, 9, ?, 25, 36 (A) 11	(B) 19	(C) 21	(D) 16
		. ,	(C) 21	(D) 16
	(A) 11	e missing term.	(C) 21 (C) IRGT	(D) 16 (D) HPIN
Direct	(A) 11 tions : (58 to 59) Find th BYDW, FUHS, JQLO,	e missing term. NMPK, ? (B) RJGH		• •
Direct 58. 59.	(A) 11 tions: (58 to 59) Find th BYDW, FUHS, JQLO, (A) RITG BYCXA, EVFUD, HSIF	e missing term. NMPK, ? (B) RJGH RG, KPLOJ, ? (B) NMOLM	(C) IRGT	(D) HPIN
Direct 58. 59.	(A) 11 tions: (58 to 59) Find th BYDW, FUHS, JQLO, (A) RITG BYCXA, EVFUD, HSIF (A) MNLOL tions: (60 to 61) Find the	e missing term. NMPK, ? (B) RJGH RG, KPLOJ, ? (B) NMOLM	(C) IRGT	(D) HPIN
Direct 58. 59.	(A) 11 tions: (58 to 59) Find th BYDW, FUHS, JQLO, (A) RITG BYCXA, EVFUD, HSIF (A) MNLOL tions: (60 to 61) Find the	e missing term. NMPK, ? (B) RJGH RG, KPLOJ, ? (B) NMOLM e missing term.	(C) IRGT	(D) HPIN
Direct	(A) 11 tions: (58 to 59) Find the BYDW, FUHS, JQLO, (A) RITG BYCXA, EVFUD, HSIF (A) MNLOL tions: (60 to 61) Find the $ 3 $ $ 2 $ $ 2 $ $ 3 $ $ 4 $ $ 3 $ $ 3 $ $ 5 $	e missing term. NMPK, ? (B) RJGH RG, KPLOJ, ? (B) NMOLM e missing term.	(C) IRGT (C) QJRIP	(D) HPIN (D) PKQJO

Space for Rough Work

Direction	4, 5 and more. They ar	e four alternatives given		en which are numbered 1, 2, 3, tions of these numbers. Select n a meaningful word.		
62.	R M N B U E 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		
63.	D I F E R N 1 2 3 4 5 6 (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		
64.	In a certain code, INSTI (A) NOICTEFREP	TUTION is written as NC (B) NOITCEFERP	DITUTITSNI. How is PER (C) NOITCEFRPE	RFECTION written in that code? (D) NOITCEFREP		
65.	If POLITICS is coded as (A) RAITLCES	S OPILITSC, then ARTIC (B) RAITLCSE	CLES will be coded as (C) NNUHPM	(D) NNVHPN		
66.			est and walked 2 metre t e. How far is he from the (C) 10 metre	hen turned North and walked 1 starting point? (D) 12 metre		
67.	metre. Then moves 25	metre to his right. He th		en turns to his left and walks 30 in and walks 55 metre. Finally, om his starting point? (D) South-East		
Direction	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 (A) T	s at the third place from t (B) U	he North end. (C) V	(D) S		
69.	What is the value of 78 (A) 58	- [5 + 3 of (25 - 2 × 10)]? (B) 120	(C) 920	(D) 979		
70.	What mathematical ope 2? 6 – 28 ÷ 7 + 2 = 10 (A) +	ration should come at the	e place of '?' in the equa	tion (D) ÷		



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