Code - ()



SAMPLE PAPER

Academic Session : 2022-23

Class : VIII

FOR STUDENTS MOVING IN CLASS - (VIII) IN 2023-24

(PRESENTLY STUDYING IN CLASS-VII IN 2022-23)

Date : 2023-24

Duration: 1.5 Hours

Max. Marks : 210



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.	Number 9							
GENERAL INSTRUCTIONS IN EXAMINATION HALL											
 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 Na	me and Roll No. in th	e space pro	ovided in	the bot	ttom o	f this b	ooklet.			
4.	Before answe sheet.	ering the paper, fill u	p the requi	red deta	ils in th	e blar	ik spac	e provi	ded in th	ie ans	swer
5.	Do not forget answer sheet.	to mention your rol	l number n	eatly an	d clear	ly in t	he bla	nk spac	e provic	led in	the
6.	There is no ne	egative marks for wro	ng 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 sh	eet ava	ilable	with th	e institu	te shall I	be fina	al.
		٨	MARKING	CRITI	ERIA						
No of	Questions	Туре				Ма	rks			-	
	Questions	1,100		Correc	t			Incorr	ect	Bla	ank
	1–70	Only one correct	Q. No. 1 t	to 70 (3	Mark e	ach)	Noi	negativ	e marks		0
IMPORTANT											
PROCEDURE OF FILLING UP THE ANSWERS IN OMR SHEET											
	Wrong F	illing		Right	Filling						
	ANBCD	Tick mark		A	🕒 с р	Fu	lly darl	cen with	h HB Per	ncil	
	A X C D	Cross mark		A	🕒 с р	Ful	ly dark	en with	HB Pen	cil	
	A 🌑 C D	Half filled or se	emi dark	A	🕒 с р	Ful	ly 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.

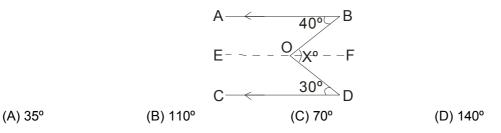
1.	If we add 'x' to –25 we (A) -35.	get 15, then the value of (B) -10.	f x is: (C) 10.	(D) 40.			
2.	If a book is $12\frac{1}{2}$ cm lo	ng and $10\frac{2}{3}$ cm wide, the	en its perimeter (in cm) w	<i>i</i> ll be:			
	(A) $\frac{112}{6}$	(B) $\frac{139}{6}$	(C) $\frac{139}{3}$	(D) $\frac{140}{3}$			
3.	The simplest form of $\frac{3}{7}$	$\frac{3}{7} + \frac{6}{11} + \frac{-8}{21}$ is:					
	(A) $\frac{231}{137}$	(B) <u>215</u> <u>121</u>	(C) <u>121</u> <u>215</u>	(D) 137 231			
4.	If the supplement of ar (A) 40°	n angle is three times its ((B) 35°	complement, then angle (C) 50°	is: (D) 45°			
5.	In ΔABC, ∠A = 50°, Δ	$\angle B = 70^{\circ}$ and bisector	of $\angle C$ meets AB in D fi	g.Measure of $\angle ADC$ is.			
		D 70° B	250° C				
	(A) 50°	(B) 100°	(C) 30°	(D) 70°			
6.	By which rule, the two triangles are congruent is						
	(A) SAS.	(B) SSS.	(C) AAS.	(D) RHS.			

- 7. Which one of the following statements is true ? (A) $4^{3^2} = (4^3)^2$ (B) $4^{3^2} > (4^3)^2$ (C) $4^{3^2} < (4^3)^2$ (D) they cannot be compared
- 8. The simplest form of $[7x^2y 7xy + 5xy^2 5xy + x^2y xy^2]$ is (A) $8x^2y + 4xy^2 + 12xy$. (B) $8x^2y + 4xy^2 - 12xy$. (C) $-8x^2y - 4xy^2 + 12xy$. (D) $8x^2y - 4xy^2 - 12xy$.
- 9.The product of two integers is 120. If one of them is -8, then the other integer will be
(A) -20.(B) -15.(C) -12.(D) -10.

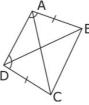
10. A tailor stitched $\frac{1}{9}^{\text{th}}$ of the cloth on first day, $\frac{5}{8}$ of remaining on the second day. He is still left with 1m cloth . Find the total length of cloth.

(A) 1 m (B) 2 m (C) 3 m (D) $\frac{1}{3}$ m.

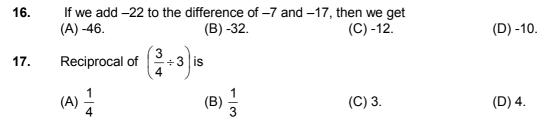
11. In the given figure, AB || CD, \angle ABO = 40° and \angle CDO = 30°. If \angle DOB = x°, then the value of x is :



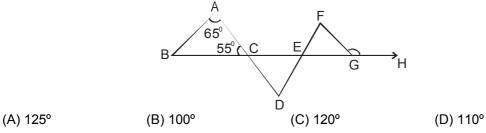
- **12.**If three angles of a triangle are $(2x + 20)^{\circ}$, $(x + 30)^{\circ}$ and $(2x 10)^{\circ}$, then the angles will be
(A) 52°, 60° and 58° respectively.
(C) 76°, 58° and 46° respectively.(B) 76°, 55° and 49° respectively.
(D) 80°, 61° and 47° respectively.
- **13.** Given ABCD is a quadrilateral. If AB = DC and $\angle DAB = \angle ADC$, then the two congruent triangle in quadrilateral ABCD are



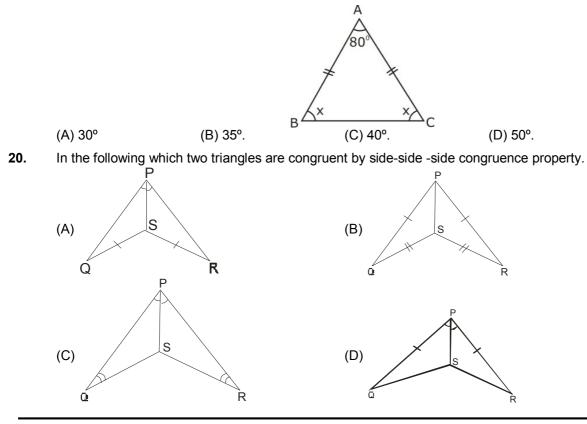
	(A) ADC and DAB.	(B) ADC and ABC.	(C) ADB and DBC.	(D) ABC and ABD.
14.	For what positive intege (A) 2	er 'n' does n ² × 1995 ² × 1 (B) 4	1996 ² ×1997 ² = 3990 ² × 3 (C) 5	3992 ² × 3994 ² ? (D) 8
15.	If x = 1, y = -1 then the (A) 1.	value of x ⁷ × x ⁰ × (xy) we (B) –1.	ould be (C) 0.	(D) 7.



18. In the given figure if AB || DF, AD || FG, \angle BAC = 65°, \angle ACB = 55°. Find \angle FGH.



19. In the given isosceles triangle, if AB = AC, then the value of base angles would be



Space for Rough Work

21.	The standard form of 6 (A) 0.6595×10^4 .		(C) 65.95 x 10 ⁴ .	(D) 659.5 x 10 ⁴ .
22.			+ 12q - 3r, then C - (A + (C) 23p + 18q – 10r.	
23.	Simplify $\left[2^{\frac{1}{ab}}\right]^{c} \left[2^{\frac{1}{bc}}\right]^{a} \left[$ (A) 64	$2^{\frac{1}{ac}} \int^{b}$ when $a^{2} + b^{2} + c^{2} + c^{2}$ (B) 32	= 2abc. (C) 4	(D) 8
		. ,	(0) 4	
24.	If $\frac{a}{b} + \frac{b}{a} = 4$, find the	value of $\frac{a^2}{b^2} + \frac{b^2}{a^2}$		
	(A) 16	(B) 18	(C) 14	(D) 20
25.	The value of $\left[\left(\frac{-1}{3}\right)^{-2}\right]$	$\left[\left(\frac{2}{3}\right)^{2}\right]^{-2} \times \left[\left(\frac{2}{3}\right)^{2}\right]^{-2} \div \left[\left(\frac{3}{2}\right)^{-1}\right]$	is :	
	(A) 81	(B) 36	(C) 1/ <u>81</u>	(D) $\frac{1}{36}$

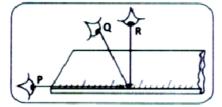
2. PHYSICS

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.	Which instrument is use (A) Measuring tape	ed to measure weight? (B) Spring balance	(C) Measuring cylinder	(D) Beam balance
27.	The device in a vehicle (A) odometer	used to measure the sp (B) Speedometer	eed is (C) Voltmeter	(D) Galvanometer
28.	The range of a clinical (A) 0-100°C.	thermometer is: (B) 32-212°F.	(C) 0-273°C.	(D) 35-42°C.
29.	A simple pendulum tak is :	es 40 seconds to comple	ete 20 oscillations. So, the	e time period of the pendulum
	(A) 2 seconds	(B) 4 seconds	(C) 1 second	(D) 6 seconds.

30. The given figure shows the positions of the eye while measuring the length on the ruler.



Which of the given positions of the eye are inaccurate techniques? (A) P and Q (B) Q and R (C) Rand P (D) P,Q and R 31. 90 km/h is equal to: (A) 5 m/s (B) 25 m/s (C) 18 m/s (D) 36 m/s 32. In celsius scale, the difference between lower fixed point and upper fixed point is divided into: (A) 100 parts. (B) 273 parts. (C) 180 parts. (D) 50 parts. 33. A sound wave has a frequency of 1000 Hz and a wavelength of 35 cm. How long will it take to travel 1 km: (A) 3.20 s (B) 2.86 s (C) 5.94 s (D) 3.10 s 34. The changes which repeat themselves at regular interval of time are : (A) slow changes (B) periodic changes (C) non-periodic changes (D) None of these 35. The echo is heard if the original sound reflected by an obstacle reaches our ears after: (A) 10s (C) 1s (B) 5s (D) 0.1 s **3. CHEMISTRY** 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. Correct electronic configuration of potassium(K) is ? 36. (B) 2,8,2 (C) 2,8,8,1 (A) 2,7,1 (D) 2,8,9 37. Which of the following is not the property of wool?

	(A) Flame retardant	(B) Breathable	(C) Non allergic	(D) non-Biodegradable
38.	HCOOH is :- (A) Hydrochloric acid	(B) Formic acid	(C) Sulphurous acid	(D) Oxalic acid
39.	Molecular mass is 98u, (A) H ₂ SO ₄	identify the compound:- (B) H ₂ SO ₃	(C) H4SiO4	(D) HBr
40.	Silk fibre are and (A) Soft, dull	? (B)hard,dull	(C)Soft, lustrous	(D)rough, lustrous

41.	Tusser silk and Muga silk are produced by:- (A)Anheraea Mylitta worms (C) Bombyx mori worms	(B) Philosomia ricin worms (D) none of these		
42.	Match the column:- Column-A 1.A substance which turns turmeric solution rec 2.A reaction between an acid and a base. 3. An acid present in vinegar 4. An indicator derived from lichen 5. An ant whose sting contains (A) 1-a, 2-c, 3-b, 4-e, 5-d (C) 1-d, 2-c, 3-b, 4-e, 5-a	Addish brown a. Base b. Acetic acid c. Neutralisation d. Acid e. Litmus (B) 1-c, 2-a, 3-b, 4-e, 5-d (D) 1-a, 2-e, 3-b, 4-c, 5-d		
43.	Burning piece of wool fabric smells like burning of: (A) Proteins (B) Fats	g hair. This is be (C) Vitamins	cause both wool and hair are made up (D) Carbohydrates	
44.	In summers, if milk is not refrigerated, it becon fresh milk to prevent the milk from spoiling? (A) Caustic soda (B) Potash alum	、	of the following is added by milkmen to	
45.	Correct statement about phenolphthalein is that (A) turns red to blue in basic solution (C) turns pink in acidic solution	at it:- (B) turns blue to red in acidic solution (D) remains colourless in acidic solution .		
	4. BIC	LOGY		
	Straight Ob This section contains 10 questions. Each q answer, out of which ONLY ONE is correct		noices (A), (B), (C) and (D) for its	
46.	In lichen, the autotrophic partner is (A) algal partner. (C) algal and fungal partner.	(B) fungal partn (D) bacterial pa		
47.	A reddish brown gland situated in the upper par (A) liver. (B) kidney.	rt of the abdomen (C) pituitary.	on the right side is (D) thymus.	
48.	Maximum temperature of the day normally occu (A) at noon. (B) in the afternoon.	urs. (C) in the eveni	ng. (D) at night.	
49.	In muscles, glucose breaks to give lactic acid a (A) presence of oxygen. (C) absence of carbon dioxide.	(B) absence of	oxygen. akdown never takes place in muscles.	

50.	Match the components of column A with their con Column A A. Haemoglobin B. Atria C. Root hairs D. Sweat		correct counter part in column B: Column B (i) absorption of water (ii) contains water and salt (iii) RBC (iv) heart		
	(A) A-(iii), B-(iv), C-(ii), D-(i) (C) A-(iii), B-(iv), C-(i), D-(ii)		(B) A-(i), B-(iv), C-(ii), D-(iii) (D) A-(ii), B-(iii), C-(iv), D-(i)		
51.	The part/parts of a desert plant per (A) leaves and roots (B) stem a			s is/are (D) roots.	
52.	Digestion of food takes place in (A) mouth, small intestine (C) mouth, anus		(B) mouth, large intestine (D) mouth, rectum		
53.	The climate is the average weather pattern take (A) One year (C) Long time, say 25 years		en over- (B) Two-three years (D) Century		
54.	On an average, at rest an adult hu (A) 5-10 times in a minute. (C) 15-18 times in a minute.	man being bro	eathes (B) 35-45 times in a min (D) 12-20 times in a min		
55.	Type of blood circulation found in (A) single blood circulation. (C) Both (A) and (B)	numans is	(B) double blood circula (D) open type.	ation.	

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.	2, 3, 10, 15, 26, ? (A) 34	(B) 35	(C) 36	(D) 37
57.	1, 4, 27, 16, 125, 36, ? (A) 216	(B) 343	(C) 64	(D) 49s
Directi	ions : (58 to 59) Find the	e missing term.		
58.	A , E , I , M , Q, ? (A) P	(B) U	(C) V	(D) W
59.	J , N , R , V , ? (A) X	(B) Y	(C) P	(D) Z

Directions : (60 to 61) Find the missing term in the given figures.

