

STAR (STUDENT TALENT ACADEMIC REWARD)

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.
- 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.
- Before answering the paper, fill up the required details in the blank space provided in the OMR sheet.
- In case of any dispute, the answer sheet available with the institute shall be final.
- In case of tie the younger in age will get top rank

NAME OF THE CANDIDATE :	ROLL NO.: I have verified the identity, name and roll number of the candidate.
Signature of the Candidate	Signature of the Invigilator

THE RADIANT ACADEMY

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1. PHYSICS

Straight Objective

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.

1.	(A) 0°		rror. The glance angle of (B) 90° (D) None of the above	
2.	Which of the following (A) Plane mirror (C) Concave mirror	can produce a real imag	(B) Convex mirror (D) All the above	⊕
3.	value of current flowing	g will be		
1 .		,		
5.	500N/kg is equivalent (A) 0.5 N/g	to (B) 5000 dyne/g	(C) 50000 dyne/g	(D) Both A & C
6.	in cm ²			
	(A) 1.5	(B)1500	(C).15	(D)15000
7.	acceleration of the obj	ect after 2 sec?		
	(A)10 m/s²	(B) 100 m/s²	(C) 3 m/s ²	(D) 300m/s²
3.			If 3600 wa <mark>ves are pass</mark> ii (C) 41.5 m	ng through a point in the medium in (D) 57.2 m
9.	Velocity of sound is ma	aximum in (B) Water	(C) Vacuum	(D) Steel
10.	SI unit of wavelength is (A) second	s (B) cm	(C)m	(D) Hz
		2. CHI	EMISTRY	
		Straight C	Objective Type	
	(C) Will not be reflected (D) None of the above Which of the following can produce a real image (A) Plane mirror (C) Concave mirror (D) All the above 62.5×10 ¹⁸ electrons per second are flowing through a wire of area of cross-section 0.1 m², the value of current flowing will be (A) 1 A (B) 0.1 A (C) 10 A (D) 0.11 A 20kg/m² is equivalent to (A) 20 g/cm² (B) 2000 g/cm² (C) 2 g/cm² (D) 0.02kg/m² 500N/kg is equivalent to (A) 0.5 N/g (B) 5000 dyne/g (C) 50000 dyne/g (D) Both A & C A force of 225 N, while acting on an area A, produces a pressure of 150 Pa. What is the magnitude of A in cm² (A) 1.5 (B) 1500 (C) .15 (D) 15000 Two forces of 50N & 100N are applied on an object of mass 500g in opposite direction.What is the acceleration of the object after 2 sec? (A) 10 m/s² (B) 100 m/s² (C) 3 m/s² (D) 300m/s² The speed of a wave in a medium is 760 m/s. If 3600 waves are passing through a point in the medium in 2 minutes, then its wavelength is (A) 13.8 m (B) 25.3 m (C) 41.5 m (D) Steel SI unit of wavelength is			
11.	_			(D) Spandex
12.				(D) Polyester
13.			(C) Acrylic	(D) None
14.			(C) PVC	(D) Melamine
2. Which of the following can produce a real image (A) Plane mirror (C) Concave mirror (D) All the above 3. 62.5×10¹º electrons per second are flowing through a wire of area of cross value of current flowing will be (A) 1 A (B) 0.1 A (C) 10 A (I) 20kg/m² is equivalent to (A) 20 g/cm² (B) 2000 g/cm² (C) 2 g/cm² (D) 0.02l 5. 500N/kg is equivalent to (A) 0.5 N/g (B) 5000 dyne/g (C) 50000 dyne/g (C) 50000 dyne/g (A) 1.5 (B) 1500 (C) 1.5 (C) 1.5 (C) 1.5 (C) 1.5 (C) 1.5 (D) 1.5 (D) 1.5 (E) 1.5			(D) None of these	



16.	Metal which is best cor (A) Silver	nductor of heat is (B) Gold	(C) Copper	(D) Lead
17.	The metal which is lead	st reactive is (B) Au	(C) Cu	(D) Pt
18.	Which of the following (A) HNO ₃	acid is used in lead sto (B) HCl	orage batteries (C) H ₂ SO ₄	(D) H ₃ PO ₄
19.	Biogas is a mixture of (A) Methane + CO ₂	(B) Methane + CO	(C) Ethane + CO ₂	(D) Ethane + CO
20.	Nucleons are (A) Protons	(B) Neutrons	(C) Both (A) and (B)	(D) None of these
		3. B	BIOLOGY	
	This section contains 1 which ONLY ONE is co	0 questions. Each que	Objective Type estion has 4 choices (A), (B), (C) and (D) f <mark>or</mark> its answer, out of
21.	The micro-organism wi (A) Bacteria	hich always harm the li (B) Virus	ving creature is (C) Protozoa	(D) Alg <mark>ae</mark>
22.	The connecting link be (A) Mycoplasma	tween plant and anima (B) Viruses	l cell is (C) Euglena	(D) Amoeba
23.	The curdling of milk is (A) Algae	induced by (B) Plasmodium	(C) Bacteria	(D) Fungi
24.	Malaria is caused by - (A) Bacteria	(B) Algae	(C) Protozoa	(D) Fungi
25.	Fermentation is the ma	ajor function of - (B) Lichen	(C) Mush <mark>room</mark>	(D) Plasmodium
26.	Which of the following (A) Virus	is cause of Polio? (B) Algae	(C) Bacteria	(D) Protozoa
27.	Van mahostava is cele (A) June		(C) August	(D) September
28.	Illegal h <mark>unting of anima</mark> (A) Pr <mark>evention</mark>	al is called (B) Conservation	(C) Poaching	(D) none
29.	In whi <mark>ch state of Ind</mark> ia (A) M <mark>ahar</mark> ashtra	breeding of crocodile v	was done to increase thei (C) Rajasthan	ir species (D) Gujarat
30.	The species likely to m (A) Extinct	ove into the endangero (B) Rare	d category are called (C) Endangered	(D) Vulnerable
		4. MAT	THEMATICS	tteries 1/2 SO ₄ (D) Pt tteries 1/2 SO ₄ (D) Ethane + CO Both (A) and (B) (D) None of these DGY tive Type 1/2 Is 4 choices (A), (B), (C) and (D) for its answer, out of ature is Protozoa (D) Algae Euglena (D) Amoeba Bacteria (D) Fungi Protozoa (D) Plasmodium Bacteria (D) Protozoa August (D) September Poaching (D) none 1/2 to increase their species Rajasthan (D) Gujarat Try are called Endangered (D) Vulnerable IATICS tive Type 1/3 Is 4 choices (A), (B), (C) and (D) for its answer, out of a choices (A), (B), (C) and (D) for its answer,
		101	Objective Type	
	This section contains 2 which ONLY ONE is co		estion has 4 choices (A), (B), (C) and (D) for its answer, out of
31.	What is the length of the (A) 15 cm	ne rectangle whose bre (B) 16 cm	adth is 10 cm & perimeter (C) 20 cm	
32.	What should be added (A) 4/5	to -3/5 to get -7/5 (B) 1	(C) – 4/5	(D) 2
33.	Two numbers are in th (A) 24 & 40	e ratio 3:5. If their sum (B) 15 & 24	is 64, then the numbers a (C) 10 & 24	



 (A) 100 yrs. (B) 115 yrs. (C) 300 yrs. (D) 30 yrs. 35. The sum of three consecutive multiples of 5 is 45. Which is the smallest of the three multiples. (A) 10 (B) 15 (C) 20 (D) 25 36. If z/(z + 15) = 4/9, then the value of z' is (A) 11 (B) 12 (C) 13 (D) 14 37. Sum of two numbers is 95. If one exceeds the other by 15, then the numbers are (A) 25 & 40 (B) 50 & 65 (C) 30 & 45 (D) 40 & 55 38. Find the number which is not a perfect cube among the following (A) 1331 (B) 25 (C) 10 (D) 15 39. What is the smallest number by which 2560 must be multiplied so that the product is a perfect cube? (A) 5 (B) 25 (C) 10 (D) 15 40. Find the smallest number by which 8788 must be divided so that the quotient is a perfect cube. (A) 4 (B) 12 (C) 16 (D) 32 41. What is the cube root of 1.331? (A) 0.11 (B) 0.011 (C) 11 (D) 1.1 42. Find the value of √√√√√√√√√√√√√√√√√√√√√√√√√√√√√√√√√√√					
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(A) 3 (B) 4 (C) 6 (D) -6 45. The difference of the cube and the square of a natural number is 48. Find the number (A) 6 (B) 4 (C) 9 (D) -6 46. The value of x for which the expression $3x - 4$ and $2x + 1$ become equal is (A) -3 (B) 0 (C) 5 (D) 1 47. The solution of which of the following equations is neither a fraction nor an integer. (A) $3x + 3 = 5x + 2$ (B) $4x - 18 = 2$ (C) $4x + 7 = x + 2$ (D) $5x - 8 = x + 4$ 48. The solution of the equation $ax + b = 0$ is (A) $x = \frac{a}{b}$ (B) $x = -b$ (C) $x = -\frac{b}{a}$ (D) $x = \frac{b}{a}$ 49. If $8x - 3 = 25 + 17x$, then x is (A) A fraction (B) An integer (C) A rational number (D) Cannot be solved 50. If $\frac{5x}{3} - 4 = \frac{2x}{5}$, then the numerical value of $2x - 7$ is (A) $\frac{19}{13}$ (B) $-\frac{13}{19}$ (C) 0 (D) $\frac{13}{19}$ 51. The perimeter of a parallelogram is 180 cm. If one side exceeds the other by 10 cm, what are the sides of the parallelogram?	44.			nother number. If the su	m of the cubes of numbers is 243,
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the parallelogram?		(A) $\frac{19}{13}$	(B) $-\frac{13}{19}$	(C) 0	(D) $\frac{13}{19}$
	51.	the parallelogram?	_		•



52. In a square ABCD, the diagonals bisect at O. What type of a triangle is AOB?

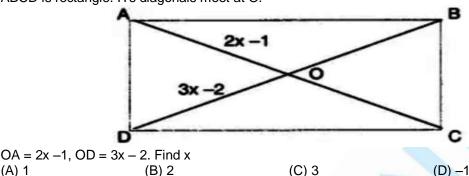
(A) An equilateral triangle

- (B) An isosceles but not a right angled triangle
- (C) A right angled but not an isosceles triangle (D) An isosceles right angled triangle

In a parallelogram $\angle A : \angle B = 1 : 2$. The $\angle A =$ 53.

- (A) 30°
- (B) 60°
- (C) 45°
- (D) 90°

54. ABCD is rectangle. ITs diagonals meet at O.



55. If M is a number such that M ÷ 5 gives a remainder of 1, then which of the following is the one's digit of M?

(A) 1

(A) 1

- (B) 6
- (C) 1 or 6
- (D) none of these.

4. SOCIAL 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.

- Resources being used for production have: 56.
 - (A) legal value
- (B) economic value
- (C) aesthetic value
- (D) ethical value

57. Those resources which are found in a region, but have not been put to a proper use are called:

- (A) actual resources
- (B) biotic resources
- (C) potential resources (D) abiotic resources
- 58. Human made resources have gained importance because of :
 - (A) Growth in physical capital
- (B) Technology

(C) Political institutions

- (D) All the above
- 59. Which of the renewable resource takes a comparatively longer time to renew itself?
 - (A) Wind
- (B) Solar energy
- (C) Both A & B
- (D) Forests

- 60. Which is not a human made resource?
 - (A) buildings
- (B) tools
- (C) machines
- (D) mineral
- , Lord Mountbatten, the last British Governor General of India announced the 61. partition of British Indian Empire.
 - (A) 3rd June 1947
- (B) 4rd June 1948
- (C) 5rd June 1949 (D) 6rd June 1947
- 62. What was important in the history written by British historians in India?
 - (A) The role of Kings in making India a great country.
 - (B) How the British defeated the French and captured India.
 - (C) The rule of each Governor-General
 - (D) The rule of Indians who supported the British in establishing their rule over India.
- 63. Gandhi Irwin pact was signed in
 - (A) 1931
- (B) 1905
- (C) 1877
- (D) 1600

- 64. The last British Governor General of India
 - (A) Lord curzon
- (B) Lord Mountbatten
- (C) Lord Dalhousie (D) Lord Macualy



- **65.** James Mill was a
 - (A) An Indian economist
 - (C) A Scottish economist

- (B) An Italian economist
- (D) A Dutch economist

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.

	which ONLY ONE	is correct.		
66.	Which letter is exaseries?	actly in the middle of the	20 th letter from the ri	ght and 11 th letter from left in alphabet
	(A) I	(B) J	(C) H	(D) O
67.	to the right of the 1	of the following alphabets i 0 th letter counting from the JKLMNOPQRSTU (B) F	left end?	erse order, which letter will be 10 th letter
68.	Which one word ca (A) NEAR	n be formed from the lette (B) SEER	rs of the word 'REVEF (C) PEER	RENCE'? (D) NEVER
69.	'ARISTOCRAT"?			as in the alphabetical order in the word
	(A) 1	(B) 2	(C) 3	(D) 4
70.	Which of the follow (A) Arrangement	ing words will come at sec (B) Arrest	ond position if all the v	wo <mark>rds are</mark> arra <mark>ng</mark> ed alphabetically? (D) Arrival
71.	If first half of the alp from the left?			ter would be 3 rd to the right of 10 th letter
	(A) F	(B) H	(C) B	(D) A
72.	If the following word (A) Olympic	ds are arranged in the alph (B) Olympia	nabetical orde <mark>r, wh</mark> ich (C) Oval	word will appear at the end? (D) Ovulet
73.		orm a word with 1 st , 4 th , 7 th Otherwise, X is the ans <mark>wer</mark>		e word 'SUPERFLUOUS', write the first
	(A) S	(B) L	(C) O	(D) X
74.				o th , 11 th and 12 th letters of the word hat word from the right end of the new (D) I
75.		85	, ,	word will appear at second position. (D) Principled
76.		estion, arrange the given we be correct sequence. 2. Wriggle 3. Writhe (B) 5, 4, 2, 1, 3	·	5. Wrath (D) 5, 2, 1, 3, 4
77.	HIGH = 5645 and I (A) 2338	DEEM = 12210 how will yo (B) 3449	ou code FEEL ? (C) 3229	(D) 4337
78.	How many pairs of them in the word as (A) Nil		rd 'LANGUISH' which (C) Two	have as many letters between (D) None of these
79.	` '	` ,	,	ACLES written in that code? (D) RIMLCAES



80. The following question is based on the following alphabet series.

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Which letter is sixteenth to the right of the letter which is fourth to the left of I?

(A) S (B) T (C) U (D) V

7. ENGLISH

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.

	Fill in the blanks with the correct answer selecting from the given options.										
81.	The collective noun of '(A a swarm of thieves		(C) a swarm of a den	(D) a swarm of a spring							
82.	Lalita can find t	he lost key. (B) his	(C) own	(D) herself							
83.	This dress is th (A) pretty	an that. (B) prettier	(C) prettiest	(D) none							
84.	The burglar crept (A) silent	(B) silence	(C) silently	(D) none							
85.	I the letters yet (A) have not printed		(C) shall not print	(D) do not print							
86.	Change into passive: (A) Can you be helped (C) Will you be helped	by me?	(B) Shall I be helped by (D) Would I be helped by								
87.	She work long v (A) might	when she was young. (B) would	(C) should	(D) could							
88.	There was wate (A) little	r left for him to drink. (B) not many	(C) any	(D) a							
89.	Light comes the (A) to	sun. (B) in	(C) from	(D) off							
90.	Identify the Kind of give	en sentence. "Don't pluck (B) Imperative	r flowers." (C) Interrogative	(D) Exclamatory							



CLASS : VIII SAMPLE PAPER

ANSWER KEY

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



