Class – 8^{th} to 9^{th}



Read all the instructions carefully before answering your questions. You are not allowed to leave the exam hall before the end of the test.

Time Allotted: 2 Hrs

Maximum Marks: 400

GENERAL INSTRUCTIONS

- This booklet is your question paper. Answers are to be marked in the provided OMR sheet.
- This question paper contains FIVE sections.
 - Section- I is **MATHEMATICS**,
 - Section II is **PHYSICS**,
 - Section III is **CHEMISTRY**,
 - Section-IV IS **BIOLOGY**,
 - Section V is **APTITUDE**.
- There are a total of 100 questions.
- All questions are **Multiple Choice questions with single answer correct**.
- Each question carries +4 marks for correct answer, No negative marks

FILLING OMR SHEET

Ensure all details in the OMR are filled before you start marking your answers.

On the OMR sheet, darken the appropriate bubble with **BALL POINT PEN ONLY**

Name of the Candidate	:										
Roll Number	:										
Date of Examination	:				Ce	entre	:				

1

 $Class-8^{\rm th}\ to\ 9^{\rm th}$



14

Useful Data

.....

	PHYSICS
Acceleration due to gravity	$: g = 10 m/s^2$
Planck constant	: h = $6.6 \times 10^{-34} J - s$
Charge of electron	$: e = 1.6 \times 10^{-19} C$
Mass of electron	: $m_e = 9.1 \times 10^{-31} kg$
Permittivity of free space	: $\varepsilon_0 = 8.85 \times 10^{-12} C^2 / N - m^2$
Density of water	$: \rho_{water} = 10^3 kg / m^3$
Atmospheric pressure	: $Pa = 10^5 N / m^2$
Gas constant:	R = 8.314 J K^{-1} mol ⁻¹

CHEMISTRY

	Gas Constant	R =	$8.314 \text{ J } \text{K}^{-1} \text{ mol}^{-1}$
		=	0.0821 Lit atm κ^{-1} mol ⁻¹
		=	1.987 ≈ 2 Cal κ^{-1} mol ⁻¹
	Avogadro's n	umber N_a	$= 6.023 \times 10^{23}$
	Planck's cons	tant h	$= 6.625 \times 10^{-34} J.s$
			$= 6.625 \times 10^{-27} erg.s$
	1 Faraday		= 96500 coulomb
	1 calorie		= 4.2 joule
	1 amu		$= 1.66 \times 10^{-27} kg$
	1 eV		$= 1.6 \times 10^{-19} J$
Ato	mic No:	H = 1, He = 2, Li	i = 3, Be = 4, B = 5, C = 6, N = 7, O = 8, F = 9, Ne = 10, Na = 11,
		Mg = 12, Si = 14	e, Al = 13, P = 15, S = 16, Cl = 17, Ar = 18, K = 19, Ca = 20,
		Cr = 24, Mn = 2	5, Fe = 26, Co = 27, Ni = 28, Cu = 29, Zn = 30, As = 33, Br = 35,
		Ag = 47, Sn = 50), I = 53, Xe = 54, Ba = 56, Pb = 82, U = 92.
Ato	mic masses:	H = 1, He = 4, Li	i = 7, Be = 9, B = 11, C = 12, N = 14, O = 16, F = 19, Na = 23,
		Mg = 24, Si = 28	8, Al = 27, P = 31, S = 32, Cl = 35.5, K = 39, Ca = 40, Cr = 52,
		Mn = 55, Fe = 5	6, Co= 59, Ni = 58.7, Cu = 63.5, Zn = 65.4, As = 75, Br = 80,
		Ag = 108, Sn = 1	118.7, I = 127, Xe = 131, Ba = 137, Pb = 207, U = 238.

Class – 8th to 9th







		Class – 8 th to	9 th	Rani Institute of		
19.	If $x + \frac{1}{2} = 2$ then x	$^{3}-\frac{1}{^{3}}=?$		Scholastic Education		
	X	X^{3} (b) 6	(c) 4	(4) 0		
0	(a) o	(U) O	(C) 4	(d) 0		
20.	112 + 2 = 320					
	(a) 6	(b) 8	(c) 5	(d) 7		
			Section – II			
			PHYSICS			
21.	The pressure which	ch is exerted by the air ar	round us is known as			
	(a) force		(b) atmospheric p	ressure		
2	When two forces	act in opposite directions	then the magnitude of n	et force acting is the		
	(a) sum of two forces (b) difference between the magnitudes of the two force					
	(c) both of these		(d) none of these			
3.	Frictional force ac	ts in which direction?				
	(a) On any direction	on	(b) Along the dired	ction of motion		
	(c) Perpendicular	to the direction of motio	n (d) Opposite to the	e direction of motion		
4.	A force of 40 N act	ts over an area of $8m^{2}$, fir	nd the value of pressure.			
	(a) 5 Nm ^{- 2}	(b) 50 Nm ^{- 2}	(c) 8 Nm ⁻²	(d) 80 Nm ⁻²		
25.	A force acting on a	in object of mass 500g ch	anges its speed from 2 m	s^{-1} to 0.2 ms^{-1} . The change in		
	momentum is					
	(a) Increase by 0.9	90 NS	(b) decrease by 0.9	90 Na cm (c		
26.	Which of the follow	wing statements is corre	ct about rolling and slidin	ng friction?		
	(a) Rolling friction	is greater than sliding fi	riction			
	(b) Rolling friction	ı is lesser than sliding fri	ction			
	(c) Rolling and slic	ling frictions acting on a	body are equal			
7	(d) None of these	to roduce the force of fri	ation on an abject?			
	(a) Lubricate the s	surface	cuon on an object?			
	(b) Streamline the	body shape				
	(c) Reduce the sur	face area in contact of tw	vo bodies			
	(d) All of these					
28.	When the applied	force is doubled, the obj	ect is still at rest, the stati	c friction becomes		
0	(a) doubled	(b) halved	(c) quadrupled	(d) zero		
.9.	Find the net force	acting on an object whos	e mass is 2 kg, as shown	in the ligure.		
		(Friction	al ←3 N ce)			
	(a) 7 N	(b) 8 N	(c) 6 N	(d) 5 N		
		(-)		(-)		

		Class – 8 th to 9 th		Rani Institute of Scholastic Education
30.	A rocket driven sled i	s moving at a constant s	speed against a frictional for	ce of 25000 N when the thrust o
	(a) 15000 N	(b) 10 000 N		(d) 45000 N
21	While walking on ice	one should take small st	ens to avoid slinning. This is	hecause smaller stens ensure
,	(a) Large friction	(b) Small friction	(c) Small normal force	(d) None of these
32	A toy car released wit	h the same initial speed	will travel farthest on	(u) None of these
	(a) muddy surface		(b) polished marble surf	face
	(c) cemented surface		(d) brick surface	
33.	A coin flicked across a	a table will stop, because		
	(a) it is heavy		(b) no force is acting on	it
	(c) earth attracts the	coin	(d) table exerts a friction	nal force
34.	A ray of light strikes t	he surface of mirror at a	n angle of 30 [°] with the mirr	or. The angle of reflection is:
	(a) 30 ⁰	(b) 60 ⁰	(c) 45 ⁰	(d) none.
35.	The splitting of light i	nto its component colou	rs is called	
	(a) refraction	(b)spectrum	(c) dispersion	(d) diffraction
86.	Which of the followin	g is not an example of m	uscular force?	
	(a) A porter carrying	a load on a wheel-barrow	w (b) A child riding a bicyc	cle
	(c) An apple falling fr	om a tree	(d) A man pushing a car	t
37.	Light is falling on surf	face S1, S2, S3 as shown	in Fig	
		7	4 4 4	
			Surface S,	
			Surface S,	
		/	Surface S	
	Surfaces on which the	e angle of incidence is eq	ual to the angle of reflection	is/are
	(a) S1 only	(b) S1 and S2 only	(c) S2 and S3	(d) all the three surfaces
38.	In the figure of the hu	man eye, the cornea is r	epresented by the letter	
		A B C D		
	(a) A	(b) B	(c) C	(d) D
39.	Refractive index of di	amond with respect to v	acuum is 2.5, and then the v	elocity of light in diamond is.
	(a) 25×10 ⁸ m/s	(b)2.5×10 ⁸ m/s	(c)1.2×10 ⁸ m/s	(d)2.1×10 ⁸ m/s
ł0.	When the angle betw	een two plane mirrors is	60°, how many images will	be formed by the mirrors?
	(a) 10	(b) 12	(c) 5	(d) 8

* * * * * * * *

*



R	ISE SCHOLARSHIP C	CUM ADMISSION	TEST – SAMPLE PAPER						
a a a a		Rani Institute of Scholastic Education							
4 4		Se	ection – III						
4 4 4	CHEMISTRY								
41.	The correct order of meta	als in the activity serie	es is						
- 4 4	(a) Cu > Zn > Mg > Ca		(b) Ca > Zn > Cu > Mg						
6 6	(c) Zn > Mg > Cu > Ca		(d) Ca > Mg > Zn > Cu						
42.	Which of the following m	etals has no reaction	even with steam?						
4 4 4	(a) Sodium	(b) Calcium	(c) Iron	(d) Silver					
43.	Antimony and Arsenic ca	n be classified as							
4 4 4	(a) Metals	(b) Non-metals	(c) Metalloids	(d) Any one of these					
44.	When CaO (calcium oxid	e) is dissolved in wa	ter, Ca(OH), (calcium hydrox	xide) is obtained. A red litmus					
а а а	paper dipped in this solu	tion turns , th	is shows that the solution is	in nature.					
4 4 4	(a) blue, acidic	(b) red, acidic	(c) blue, basic	(d) red, basic					
45.	Which of the following st	atements is false?		(),,					
4 4 4	(a) Metals are good cond	uctors of heat and ele	ctricity						
- 4 4	(b) Gold, silver and Zinc a	are most malleable me	etals						
A A	(c) Mercury is the only lie	uid metal							
4 4 4	(d) Bromine is the only li	quid non-metal							
46.	Which of the following st	atement regarding no	on-metals is true?						
л л л	(a) Non-metals are of two	o types only solids and	d gases						
~ 4 4	(b) Non-metals reacts wi	th oxygen to form bas	tic oxides generally						
A A	(c) Non-metals are mostl	y non-lustrous with d	ull appearance.						
4 4 4	(d) Non-metals replace h	ydrogen from acids							
47.	Gasoline is obtained from	n crude petroleum oil	by						
4 4 4	(a) fractional distillation	•	(b) vacuum distillation						
~ 4 4	(c) steam distillation		(d) pyrolysis						
48.	The side of the matchbox	has a rubbing surface	where we strike the match. W	hich of the following statement					
4 4 4	is false regarding this								
4 4 4	(a) The rubbing surface h	as powdered glass an	nd red phosphorous						
a a a	(b) when struck red phos	phorous converts to s	shite phosphorous						
A A	(c) White phosphorous is	present in the rubbin	ng surface						
4 4 4	(d) The glass powder in t	he rubbing surface pr	ovides friction						
49.	Water gas is								
4 4 4	(a) $CO + CO_2$	(b) $CO + N_2$	(c) $CO + H_2$	(d) $CO + N_2 + H_2$					
50.	Select the true statement								
4 4	(a) the innermost zone of	f the flame is hottest.							
4 4 4	(b) luminous part of the	lame, is hottest due to	o complete combustion						
6 6 6	(c) Outermost zone of the	e flame, is hottest due	to partial combustion						
6 6 6	(d) Outermost part of flam	me is hottest, due to c	omplete combustion						
4 4									

RISE Office: Plot No 774, Flat B-4, Fourth Floor, Vignesh Sai Garden Flats, Munusamy Salai, KK Nagar, Chennai - 600078

.....





////

1

411

.....

Class – 8^{th} to 9^{th}



14

				Scholdstic Education
		See	ction – IV	
		I	Biology	
61.	Virus behaves as microon	rganism at		
	(a) Inside the cell of the h	nost	(b) Outside the cell of the hos	t
	(c) Inside and outside of	the host	(d) It is not a microorganism	
62.	A helpful virus is called			
	(a) Phage Virus		(b) Bacterium	
	(c) Vector		(d) The virus never helps us	
63.	Tiny black rounded struc	ture found on spoiled l	oread pieces are	
	(a) Bacteria	(b) Fungi	(c) Virus	(d) Protozoa
64.	Which microorganism is	used in the bakery ind	ustry?	
	(a) reast	(b) Knizobium	(C) Lactobacillus	(d) All of these
65.	Which Microorganism us	(h) Dominities	(a) Aanongillug	(d) All of these
~ ~			(c) Asperginus	(u) All of these
66.	The cell formed after fe	(1) Z		
	(a) Foetus	(b) Zygote	(C) Embryo	(a) None of these
67.	Foetus is the			
	(a) Well developed emb	oryo	(b) Developing embryo	
	(c) A zygote		(d) Male gamete	
68.	Cloning is a mode of			
	(a) Sexual production		(b) Asexual production	
	(c) Both (a) and (b)		(d) None of these	
69.	How many modes of re	production are there	in animals?	
	(a) One type	(b) Two types	(c) Three types	(d) Four types
70.	In which of the following	ng organisms does me	etamorphosis take place?	
	(a) Silkworm	(b) Frogs	(c) Butterfly	(d) All of these
71.	If you were a farmer, whi	ich of the following me	thods would you use to separat	e good quality and viable
	grains from a heap of gra	ins after harvest?		
	(a) Checking the weight of	of grains	(b) Checking grains under su	nlight for pores
-0	(c) Immersing the grains	in water	(d) Sowing seeds and waiting	for germination
72.	Which of the following is	not a kharif crop?	(a) Croundrut	(d) Doog
70	(d) rauuy			(u) reas
75.	which of the following is			
	(a) Freshiy narvested gra	ains must be aried befo	re storing	
	(b) Rhizoblum present in	root nodules of legum	inous plants to fix hitrogen	
	(c) All crop plants need th	ransplantation		
	(a) None of the above			

RISE Office: Plot No 774, Flat B-4, Fourth Floor, Vignesh Sai Garden Flats, Munusamy Salai, KK Nagar, Chennai - 600078

......

R	ISE SCHOLARSHI	P CUM ADMISSION Class – 8 th to 9 th	TEST – SAMPLE PAPE	R Rani Institute of Scholastic Education
74.	Which of the following	g organic manure is consi	idered better than fertilizers	s, because
	(a) It enhances the wa	nter holding capacity of th	ne soil	
	(b) It makes the soil p	orous		
	(c) It improves the tex	cture of the soil		
	(d) All the above			
75.	Which of the following	g nutrients replenishes th	ne soil after growing legumin	nous plants?
	(a) Nitrogen	(b) Oxygen	(c) Phosphorus	(d) Potassium
76.	The number of chron	mosomes present in hu	man cell	
	(a) 22 pairs	(b) 23 pairs	(c) 24 pairs	(d) 26 pairs
77.	The male hormone is	S		
	(a) Estragon	(b) Progesterone	(c) Testosterone	(d) All of these
78.	The unfertilised egg a	lways has chromos	ome.	
-0	(a) X	(b) Y	(c) XY	(d) XX
/9.	Reproductive phase in	h women continues for he	ow many decades?	(d) Four
20	Which of the following	g glands secretes oil?	(c) mee	(u) roui
50.	(a) Thyroid gland	(b) Pituitary gland	(c) Sebaceous gland	(d) Endocrine gland
		S	ection – V	
			Aptitude	
31.	In certain code 'FROZ	EN' is written as 'OFAPSO	G'. Then how would 'MOLTEN	N' be written in that code?
	(a) OFPOMN	(b) OFSMPN	(c) OFUMPN	(d) OFUNPM
32.	Find the number of tri	iangles in the given figure		
	(a) 16	(b) 13	(c) 9	(d) 7
33.	Find the missing num	ber 1, 8, 27, 64, 125, 216,	?	
	(a) 354	(b) 343	(c) 392	(d) 245
34.	Find the missing num	ber 15, 31, 63, 127, 255, 3	?	
	(a) 513	(b) 511	(c) 517	(d) 523
35.	A two-digit number is digits are reversed. The	s such that the product o ne number is	f the digits is 8. When 18 is	added to that number, then the
	(a) 18	(b) 24	(c) 42	(d) 81
36.	In a certain code 'ROA	R' is written as 'URDU'. H	low is 'URDU' written in tha	t code?
	(a) V X D Q	(b) X U G X	(c) R O A R	(d) V S O V
	DISE Office: Diet No 77	14 Elat P. 4 Fourth Floor, Viene	ush Sai Gardan Elata Munusamu Sal	ai KK Nagar Channai 600078





RISE Office: Plot No 774, Flat B-4, Fourth Floor, Vignesh Sai Garden Flats, Munusamy Salai, KK Nagar, Chennai - 600078

/ /



* * * * * * * *

 $Class-8^{\rm th}\ to\ 9^{\rm th}$

				Ке	ys				
Q. No.	Key	Q. No.	Key	Q. No.	Кеу	Q. No.	Кеу	Q. No.	Кеу
1	С	21	В	41	D	61	Α	81	С
2	С	22	В	42	D	62	С	82	Α
3	Α	23	D	43	C	63	В	83	В
4	Α	24	Α	44	C	64	Α	84	В
5	С	25	В	45	В	65	D	85	В
6	D	26	В	46	C	66	В	86	В
7	Α	27	D	47	Α	67	Α	87	Α
8	Α	28	Α	48	C	68	В	88	В
9	В	29	Α	49	C	69	В	89	В
10	С	30	С	50	D	70	D	90	D
11	В	31	Α	51	D	71	C	91	D
12	Α	32	В	52	D	72	D	92	D
13	С	33	D	53	C	73	D	93	D
14	С	34	Α	54	C	74	D	94	Α
15	Α	35	С	55	В	75	Α	95	D
16	Α	36	С	56	C	76	В	96	Α
17	D	37	D	57	В	77	С	97	В
18	Α	38	С	58	D	78	Α	98	В
19	D	39	С	59	В	79	D	99	С
20	D	40	С	60	С	80	C	100	Α

.....

CLASS - 8



	Section – I							
	MATHEMATICS							
1.	On subtracting the reciprocal of $\frac{5}{7}$ from the add	itive inverse of $\left(\frac{-3}{4}\right)$ we get						
	(a) $\frac{11}{20}$	(b) $\frac{13}{20}$						
	(c) $\frac{-11}{20}$	(d) $\frac{-13}{20}$						
2.	If $\sqrt{x} + \sqrt{49} = 8.2$, then the value of x is							
	(a) 1.20	(b) 1.40						
	(c) 1.44	(d) 1.89						
3.	The smallest number by which 2560 must be m	Iltiplied so that the product is a perfect cube is						
	(a) 25.	(b) 15.						
	(c) 10.	(d) 5.						
4.	If the ratio of two sides of a parallelogram is 4: 5	and its perimeter is 90 cm, its sides are						
	(a) 5 cm and 18 cm	(b) 20 cm and 25 cm						
	(c) 25 cm and 20 cm	(d) 40 cm and 50 cm						
5.	The solution of the equation $\frac{6x+7}{3x+2} = \frac{4x+5}{2x+3}$ is							
	(a) $-\frac{11}{9}$	(b) $-\frac{13}{4}$						
	(c) $-\frac{9}{14}$	(d) $-\frac{2}{13}$						
6.	The value of $\frac{1}{2} \div \left(\frac{1}{3} \div \frac{2}{5}\right)$ is							
	(a) $-\frac{5}{3}$	(b) $-\frac{3}{5}$						
	(c) $-\frac{5}{12}$	(d) $\frac{3}{5}$						
7.	25 times the square of 125 is same as							
	(a) square of 625	(b) 5 times the square of 25						
	(c) 125 times the square of 25	(d) 25 times the square of 5						
8.	Cube of an even number							
	(a) is always even	(b) is always odd						
	(c) is sometimes even and sometimes odd	(d) always end with 0						

CLASS - 8



	(-) 009						
		(b) 90°					
10		(a) 45°					
10.	What is the value of $3(x^2 - 4x)$ when x	c = 4?					
	(a) 5	(b) 0					
	(c) 30	(d) 55					
		Section – II					
		PHYSICS					
11.	Pressure is measured in						
	(a) Pa	(b) N					
	(c) Nm ⁻²	(d) both (a) and (c)					
12.	Which of the following is NOT a correct statement?						
	(a) A force can change the state of rest	ce can change the state of rest or motion of a body					
	(b) A force can change the direction of	a body					
	(c) A force can change the chemical pr	operties of a body					
12	(d) A force can change the dimension of	of a body due to the combined offect of mass and velocity is called					
15.	(a) momentum	(b) force					
	(c) moment of force	(d) pressure					
14.	Equal and opposite forces acting on a l	body which do not change its state of rest or motion are called –					
	(a) null forces	(b) unlike parallel force					
	(c) balanced force	(d) all to these					
15.	Pressure of water						
	(a) increases with depth	(b) decreases with depth					
	(c) remains same with depth	(d) none of these					
16.	A batsman hits a cricket ball which the comes to rest. The ball slows down to	en rolls on a level ground. After covering a short distance, the ball stop because					
	(a) The batsman did not hit the ball ha	rd enough					
	(b) velocity is proportional to the force	e exerted on the ball					
	(c) there is a force on the ball opposing	g the motion					

CLASS - 8



17. Equal forces **F** act on isolated bodies A and B as shown. The mass of B is three times that of A. The magnitude of the acceleration of A is (a) three times that of B (b) 1/3 that of B (c) nine time that B (d) 1/9 that of B 18. Friction can be increased by (b) lubricating the surface (a) making the surface smooth (c) using ball bearing (d) making the surface rough 19. It is difficult to walk on ice because ____ (a) Pressure is high (b) pressure is low (c) friction is high (d) friction is low 20. Friction is (a) always a disadvantage (b) always an advantage (c) sometimes a disadvantage and sometimes an advantage (d) neither a disadvantage nor an advantage Section - III **CHEMISTRY** 21. Metal A – Highly malleable and ductile, reacts easily with air, water and acids. Metal B - Highly malleable and ductile, non-reactive Metal C – Malleable and ductile, forms very strong alloys Metal D - Has a melting point below room temperature Which of the following statement is false? (a) Metal A can be used to make electrical wires (b) Metal B can be used to make jewellery (c) Metal C can be used in constructions (d) Metal D can be used in thermometers 22. A brown-colored metal on exposure to air reacts with components of air to form a green coloured compound. The composition of this substance is _ (a) $Cu(OH)_2$ (b) CuO. $CuCO_3$ (c) $Cu(OH)_2$.CuCO₃ (d) $CuO.Cu(OH)_2.CuCO_3$ 23. Which of these was used earlier in railway engines to produce steam from water? (a) Petroleum (b) Diesel (c) Kerosene (d) Coal 24. The composition of the chemicals on the head of the match stick is _____ (a) Antimony disulphide + Potassium Chlorate + Red Phosphorous (b) Antinomy trisulphide + Potassium chlorate + Red Phosphorous (c) Antinomy trisulphide + Potassium chlorate + White Phosphorous (d) Antimony disulphide + Potassium Chlorate + White Phosphorous

CLASS - 8



25.	Salt of metal A, ASO4 is blue. Salt of metal B, BSC green. This shows that	\mathbf{D}_4 is green. When B is added to ASO ₄ , the color changes to
	(a) A is more reactive than B	(b) B is more reactive than A
	(c) Both are equally reactive	(d) Can't be predicted
26.	A magician wanted to perform a show. He got ou fire on exposure to air. This substance must be	it a powder from inside water which immediately caught
	(a) Sulphur	(b) Phosphorous
	(c) Carbon	(d) Mercury
27.	Which of these can be used to make thin long w	ires?
	(a) Copper	(b) Mercury
	(c) Sulphur	(d) Sodium
28.	Basu was cooking potatoes using LPG while V Veena. Which could be the correct calorific value	eena was using CNG. Basu finished cooking faster than e of LPG and CNG respectively?
	(a) 10,000 and 8000	(b) 8000 and 10,000
	(c) both 10,000	(d) both 8000
29.	Increased levels of carbon dioxide causes global	warming because
	(a) carbon dioxide is a hot gas	
	(b) carbon dioxide can trap the heat waves in the	e atmosphere
	(c) carbon dioxide reacts with other gases and l	iberates heat
	(d) none of the above	
30.	Water can be used to extinguish fire because	
	(a) It decreases the ignition temperature of the	burning substance
	(b) It converts to water vapour and surrounds t	he burning substance
	(c) Both (a) and (b)	
	(d) It absorbs the fire and extinguishes it	
	Sect	ion – IV
	BIO	DLOGY
31.	Which part within the uterus prevents the mixin	ng of the blood of the foetus with that of the mother?
	(a) Umbilical cord	(b) Uterus wall
	(c) Placenta	(d) Water sac
32.	AIDS is a deadly disease which is caused by	
	(a) a protozoan	(b) a fungus
	(c) a bacterium	(d) a virus

CLASS - 8



33.	What causes the dough to rise when yes	ast is added to it?				
	(a) An increase in temperature					
	(b) An increase in the amount of substa	ince				
	(c) An increase in the amount of release	ed water by yeast cells				
	(d) The release of carbon dioxide gas					
34.	Which of the following bacteria causes	Cholera?				
	(a) Streptococcus	(b) Clostridium				
	(c) Pasteurella	(d) Vibrio				
35.	Which of these is the correct sequence	of steps to develop a new p	lant variety?			
	P – Evaluation					
	Q – Multiplication of improved seeds					
	R – Selection					
	S = Distribution of improved seeds T = Development of gene variation					
	(2) T P P O S	ыртрос				
	$(a) \mathbf{I}, \mathbf{N}, \mathbf{I}, \mathbf{Q}, \mathbf{S}$	(d) P O R T S				
36	Which of the following methods of culti	vation causes salinization	of soil?			
50.	(a) Transplantation	(h) Cron rotation	1			
	(c) Excessive irrigation	(d) Broadcasting	Ţ			
37	Observe the given figure and identify P	0 R and S)			
	P Q ANNON A R S					
	(a) P – Coccus, Q – Bacillus, R – Vibrio, S – Spirillum					
	(b) P –Bacillus, Q – Coccus, R –Spirillum, S – Vibrio					
	(c) P –Bacillus, Q – Vibrio, R –Coccus, S – Spirillum					
	(d) P –Bacillus, Q – Spirillum, R –Vibrio, S –Coccus					
38.	Which of the following statements are o	correct about menstrual cy	cle?			
	(a) A girl who has reached puberty will	menstruate throughout he	er life			
	(b) Menstruation occurs every 28 days					
	(c) During every menstrual cycle, one n	nature ovum will be releas	ed by the ovary			
	(d) Both (b) and (c)					
39.	Which of the following is an oviparous	mammal?				
	(a) Echidna (b) Kangaroo	(c) Rabbit	(d) Bat			
	RISE Office: Plot No 774, Flat B-4, Fourth Floor	r, Vignesh Sai Garden Flats, Munu	samy Salai, KK Nagar, Chennai - 60	0078		

CL	ASS	-	8
----	-----	---	---



40.	Which of the following processes refers to the casting away of the skin by a caterpillar to allow a larger caterpillar to emerge?						
	(a) Metamorphosis		(b) Chrysalis				
	(c) Moulting		(d) Development				
		Sec	Section – V				
		Ар	titude				
41.	41. Find the missing number/letter.						
	65, 91, 143, 169?						
	(a) 231	(b) 241	(c) 221	(d) 233			
42.	Find the missing number/letter.						
	16, 48, 52, 260, 266, ?						
	(a) 1896	(b) 1826	(c) 1862	(d) 1962			
43.	Find the missing number/letter.						
	7, 15, 22, 37, 59, 96, ?						
	(a) 165	(b) 125	(c) 123	(d) 155			
44.	Find the missing number	r/letter.					
	-qr - rp - pqp - r - rprpq						
	(a) p q r q q	(b) q q q r r	(c) q p r q p	(d) p q q r r			
45.	Find the missing number/letter.						
	m m n – m m – n nn – m	mm – n nn					
	(a) m n n m	(b) n m m n	(c) m mm n	(d) m n m n			
46.	Find the missing number	r/letter.					
	a b c a – b c a a b – c a – b	o b c –					
	(a) c c a a	(b) b b a a	(c) a b a c	(d) a b b a			
47.	Find the missing number/letter.						
	J2Z, K4X, I7V, ?, H16R, M22P						
	(a) I11T		(b) L 11S				
	(c) L 12 T		(d) L 11 T				
48.	Find the odd-number.						
	(a) 1345		(b) 5675				
	(c) 3675		(d) 4578				
49.	Find the odd-number.						
	(a) 1234		(b) 5678				
	(c) 4567		(d) 4272				
50.	Find the odd-number.						
	(a) 216		(b) 343				
	(c) 960		(d) 125				

CLASS - 8



ANSWER KEY:

1. D	2. C	3. A	4. B	5. A	6. D	7. A	8. A	9. B	10. B
11. D	12. C	13. A	14. C	15. A	16. C	17. A	18. D	19. D	20. C
21. A	22. C	23. D	24. B	25. B	26. B	27. A	28. A	29. B	30. C
31. C	32. D	33. D	34. A	35. A	36. C	37. B	38. D	39. A	40. C
41. C	42. C	43. D	44. A	45. B	46. C	47. D	48. D	49. D	50. C