BUDHA DAL PUBLIC SCHOOL PATIALA

First Term Examination (7 March 2023)

CLASS - VII PAPER- SCIENCE (SET-A)

	3 hr.							101.101.	50
nera	l Instructions:								
All	l questions are comp	ulsory.				t and 100	we one line a	fter every	answe
Att Dra	t questions are comp tempt all questions s tw neat and labelled	ection (diagrai	wise in th ms where	e serial o ver requi	order neat ired.	iy ana tea	ive one into		
			P	hysics (2	7 maṛks)				
	Multiple Choice	Ques	tions :						(1)
1.	Handles of cook	ing ute	nsils sho	uld be r	nade of n	naterial t	hat		(1)
	a) conducts			b) do	es not cor	nduct hea	at		
	c) radiates h			•	s not rad		wen		(1)
2.	Band of which of					ctrum?			` '
	, 0	b) pur	ple c)	yellow	d) red				(2)
	True/ False a) A thermos f	lack co	oneiete d	of a dou	ıble wall	led glass	s vessel wit	th space	
	between then	ı filled	with air	, which :	is a bad c	onducto	r of neat		
	b) The SI system	is use	d all ove	er the wo	orld in ev	eryday r	neasuremen	ts	
[)	Give one word a	nswer	` S.						(2)
•	By which mode is			ed in lia	mids?				
l.	An object moves					of rest	What type o	f motion	
• 1)	is this?	10 – ai	iu – 110 t	ibout its	Position		, ,, _J _F		
).	Answer the follo	wing:							
	Define: i) Osci	llation	(ii)	Time pe	riod				(2)
	a spinished a constitution			OF					
	Distinguish betwe	een un	iform ar	nd non-u	ıniform r	notion.			
	Why do woolen o	lothes	keep us	warme	in winte	ers than	cotton cloth	es?	(2)
	Why does heated	air ris	e up?						(2)
	Why does cyclone	e becoi	me weak	once it	hits land	!?			(2)
	Answer the follow	wing:							
	Give any three pro	ecautio	ons need	led in cy	clone – p	prone ar	eas?		(3)
	Draw a distance -	time g	graph for	r follow	ing data	-			(3)
	Time (s)	0	1	2	3	4	5		
	Distance (in m)	0	15	30	45.	60	75		
			Forth Will		al -	•			
(Give three uses of	conca	ve mirro	ors.		'			(3)

,		(4)	,	
·VI		` /		
	Read the passage below and answer the questions: When sun shines through water droplets in the air after it rains, or near a waterfall, it gets split into different colours. This is how a rainbow is formed. A diamond cut in a special way can also produce a spectrum. Soap bubbles appear colourful because their thin surface splits light into different colours. When light is reflected by a compact disk (CD), several colours can be seen for same reason.			
01	. How is a rainbow formed?	(2)		
Q1. Q2.	_			
	Q3. Which scientist was the first to show that white light is made of scolours?			
	Chemistry (26 marks)			
Q1.		(4)		
i)	Name a disease caused by harmful micro-organisms.	(1)		
ii)	Name the acid present in vinegar.	(1)		
iii)	Which acid is used for descaling the boilers in industries?	(1)		
iv)	What is aqua - regia?	(1)		
Q2.		(0)		
i)	Why chemicals like insecticides should not be disposed off in the sink?	(2)		
ii)	How does vermicomposting act as an alternative method of sewage disposal?			
iii)	What is atomicity? Give examples of monoatomic and diatomic elements?	(2)		
iv)	What happens when an ant bites a person? How is ant - sting neutralized?	(2)		
Q3.				
i)	Explain the process of digestion in wastewater treatment. How is it useful?	(3)		
ii)	Differentiate between organic and mineral acids.	(3)		
iii)	Derive the molecular formula for a) Sodium Nitrate b) Aluminium Sulphat	e (3))	
Q4.				
i)	Write the properties of compound with examples.	(3))	
ii)	How do forests prevent soil - erosion?	(2	2)	
į.	OR			
i)	The smallest particle of a compound is a	(1	L)	
ii)	Name an element which exists in free state in nature.			
iii)	If two compounds that do not react chemically are mixed, what do we get?			
iv)	How do forests helps in cooling the surrounding air?			

Biology (27 marks)

Q1.	Name the hardest substance that covers your teeth.			
Q2.	By which part, mosquito sucks the blood of animal?			
Q3.	Which instrument is used to measure humidity?			
Q4.	Name the tiny filtering units of kidneys.			
Q5.	Give two examples of plants whose seeds are dispersed by explosion.			
Q6.	What role does saliva play in the digestion process? (Give 2 points)			
Q7.	Why are cloudy nights warmer than clear nights?			
Q8.	Transpiration allows plants to lose excess of water. It also has two other functions. What are these?			
Q9.	Define unisexual flowers. Give two examples.			
Q10.	a) An elephant lives in a rainforest. How is the trunk of an elephant useful in the rainforest? (Give 2 points)b) Why is it very difficult to predict the weather?	(2 +1		
Q11.	Differentiate between Red blood cells and white blood cells. (Give 3 points)	(3)		
Q12.	Explain three advantages of vegetative resproduction.	(3)		
Q13.	a) Define pollination. (1) b) Name two agents of pollination. (1) c) Draw a well labelled diagram to show fertilization in a flower. (3)			
	OR			

- Q13. a) How the right side of the heart is completely separated from the left side.
 - b) Name the artery that carries carbon dioxide rich blood from the heart to the lungs.
 - c) Draw a well labelled diagram of the Human Urinary System. (1+1+3)