

(c) A is true but R is false.(d) A is false but R is true.

PANCHSHEEL PUBLIC SCHOOL

10+2 Senior Secondary School (Affiliated & Recognized by CBSE)
Jaitpur, Badarpur, New Delhi-44

	Mid-Term E	xamination-2022-23	
Time:	Subject:SCIENCE	Class: X	M. Marks:60
Name	Roll No	Section	Date:
	CHEMISTRY		
,	lved on heating of copper nitrat	e is	
(a) O ₂ (b) NO ₂ (c	, , ,		1
•	ed litmus blue ,its PH is likely to	be	
(a) 1 (b) 4 (c) 5 (• •		1
•	ound in the free state in nature.		
	ghly reactive element.		
· •	true & R is the correct explana		
• •	true & R is not the correct expl	anation of A.	
(c) A is true but R is			_
(d) A is false but R is		- k - 110	I
	nen Nitric acid added to an egg		2
•	n by precipitation reaction ?Exp	<u>-</u>	
•		a knife .Its oxide soluble in wate	•
	•	answer with chemical equation	
•	•	ake it soft & spongy. Name its i tion taking place when the powo	
	should be stored in a moisture	•	ier is fleated duffing baking. S
• • •	on dot structure of Sodium Ox	-	`
9) COMPETENCY BAS		ide:	,
•		ed with large amounts of impu	rities such as soil sand atc
	-	om the ore prior to the extraction	
• •	•	ion of pure metal from ores. M	
•	-	the differences between the p	
•		aration techniques are accordi	•
(a)What is meant by		aration techniques are accordi	ngiy employed.
•	ved during Calcination?		
(i) SO ₂ (ii) CO ₂ (iii) NO			
**	es metals of low activity serie	se occur in the earth cruet?	
(d) Name the ore		s occur in the earth clust:	
(u) Name the ore	of Mercury:		
	PHYS	SICS	
1) The power of len	s of focal length 25 cm in diam		
•	D (c) 4.0 D (d) 0.4 D		1
• • • • • • • • • • • • • • • • • • • •	ms the image of an object at its	S	
(a) Cornea (b)Iris			1
• • • • • • • • • • • • • • • • • • • •	rs twinkle ,while the planets do	not.	
•	s are much bigger in size than		1
	re true & R is the correct explan	-	
(b) Both A and R ar	re true & R is not the correct exp	planation of A.	

4) Define the term Power of accomodation. Write the modification of curvature of the eye lens which enables

us to see the nearby objects clearly. 5) A real image ,4/5 size is formed 18 cm from a lens. Calculate the focal length of the lens. 6) (a) The refractive index of water with respect to air is 4/3. What is the refractive index of air with respect to (b) Why concave mirror is used in Solar furnace? 7) COMPETENCY BASED QUESTIONS: As we know that, the ciliary muscles are responsible for change in focal length of the eye lens. And this ability of eye lens to change the focal length is referred as accommodation. The least distance of distinct vision of normal eye is a about 25 cm and the far point of normal eye is found to be at infinity. Because of refractive defects of vision in human being 3 defects are possible they are myopia, hypermetropia and presbyopia. In case of myopia, person is able to see nearby objects clearly but cannot able to see distant objects distinctly. i) Which reasons are responsible for myopia? ii) Hypermetropia is also called as? iii) A student who is sitting on the first bench in the class is not able to see what is written on the board. The student is suffering from which defect and which type of lens is suitable for him? iv) What is cataract? **BIOLOGY** 1) The process by which Amoeba obtains its food is called (a) Phagocytosis (b) Assimilation (c) Diffusion (d) Absorption 2)Posture & balance is controlled by (a) Cerebrum (b) Cerebellum (c) Medulla (d) Pons 3)Assertion: Insulin regulates blood sugar level. Reason: Insufficient secretion of insulin will cause diabetes. (a) Both A and R are true & R is the correct explanation of A. (b) Both A and R are true & R is not the correct explanation of A. (c) A is true but R is false. (d) A is false but R is true. 4) Flow of energy in an ecosystem is always (a) Unidirectional (Bidirectional (c) Multidirectional (d) No specific direction 5) What happens to the rate of breathing during vigorous exercise & why? 6) Why is Pancreas called a dual function 'gland? Write the names of its hormones. 7) Difference between Cerebrum & Cerebellum? 8) Describe the process of urine formation in kidneys? 9) COMPETANCY BASED QUESTIONS: 4 Waste management is essential in today's society. Due to an increase in population, the generation of

waste is getting doubled day by day. Moreover, the increase in waste is affecting the lives of many people.

management needs proper techniques keeping in mind the environmental situations. For instance, there are various methods and techniques by which the waste is disposed of. You must have come across 5

Waste management is the managing of waste by disposal and recycling of it. Moreover, waste

R's to save the environment: refuse, reduce, reuse, repurpose and recycle.
1) Mr. X is eating Millets. For this food intake in a food chain he should be considered as occupying
 (i) a) First trophic level (ii) b) Second trophic level (iii) c) Third trophic level (iv) d) Fourth trophic level
2) The decomposers are not included in the food chain. The correct reason for the same is because decomposers:
 (i) a) Act at every trophic level of the food chain (ii) b) Do not breakdown organic compounds (iii) c) Convert organic material to inorganic forms (iv) d) Release enzymes outside their body to convert organic material to inorganic forms 3) Define Trophic level?
4) What is Ecosystem?