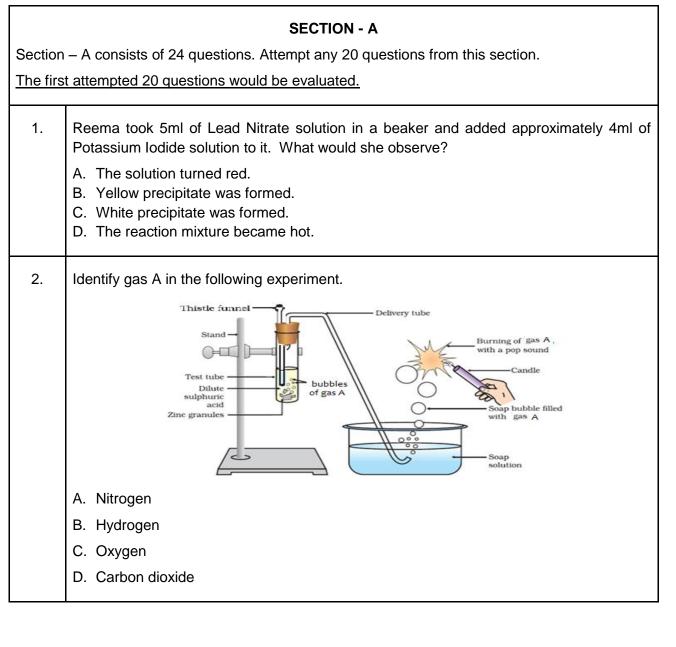
## Sample Question Paper (TERM – I) 2021-22

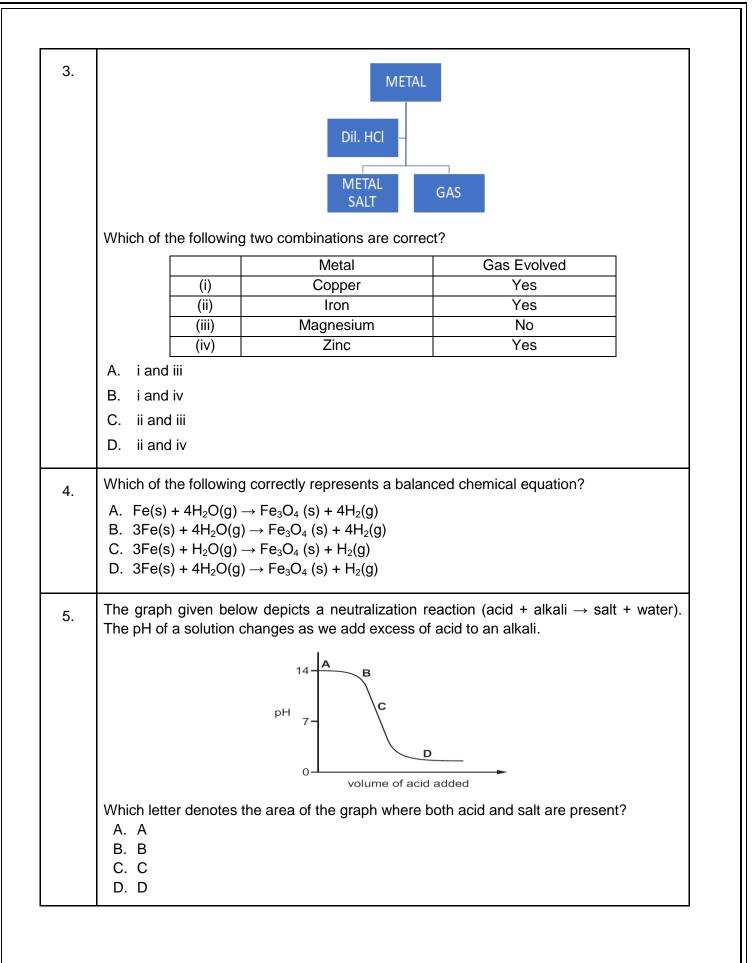
Class X Science (086)

## **Time: 90 Minutes**

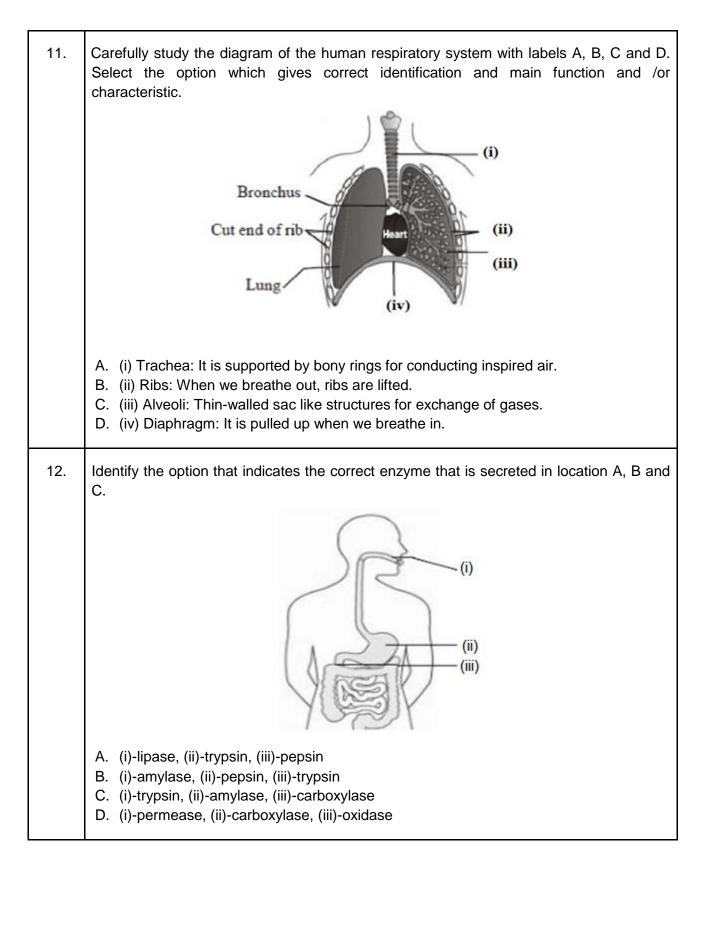
## **General Instructions:**

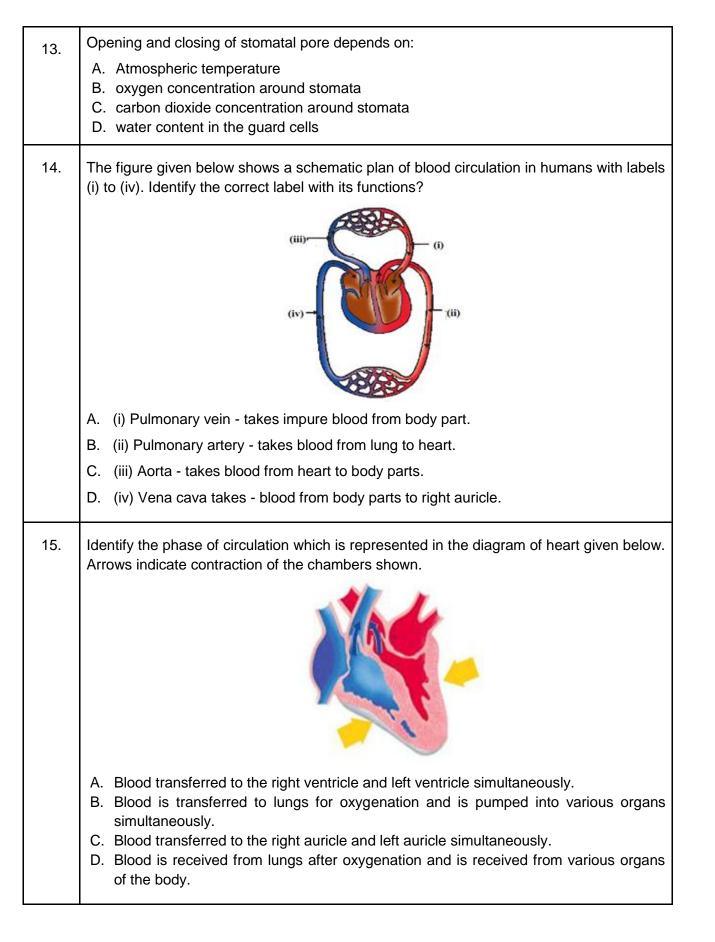
- 1. The Question Paper contains three sections.
- 2. Section A has 24 questions. Attempt any 20 questions.
- 3. Section B has 24 questions. Attempt any 20 questions.
- 4. Section C has 12 questions. Attempt any 10 questions.
- 5. All questions carry equal marks.
- 6. There is no negative marking.



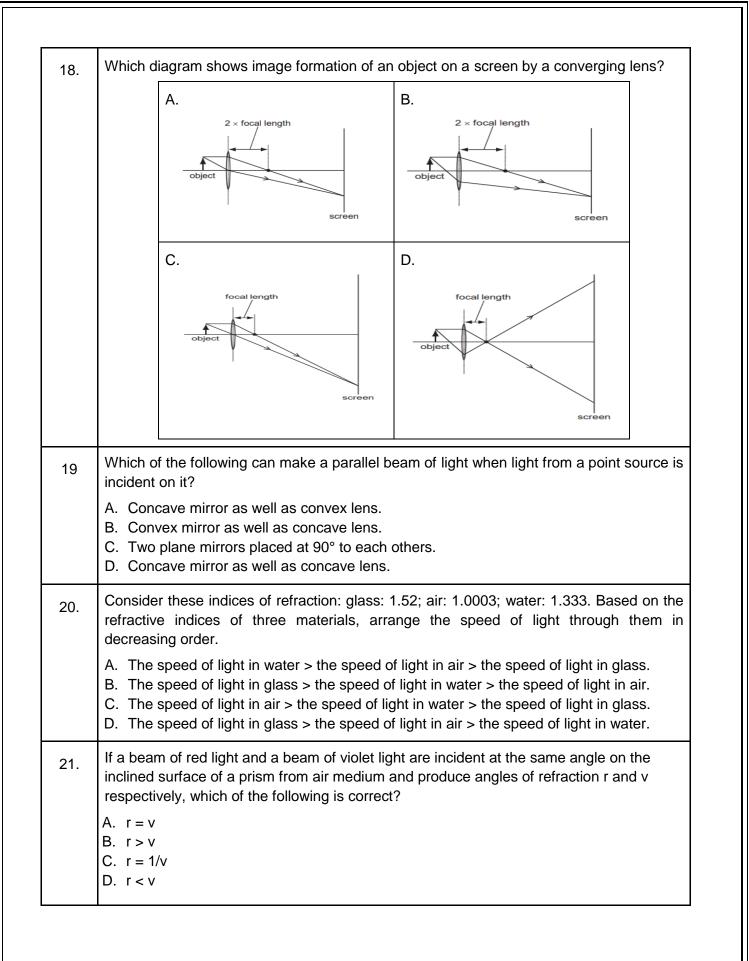


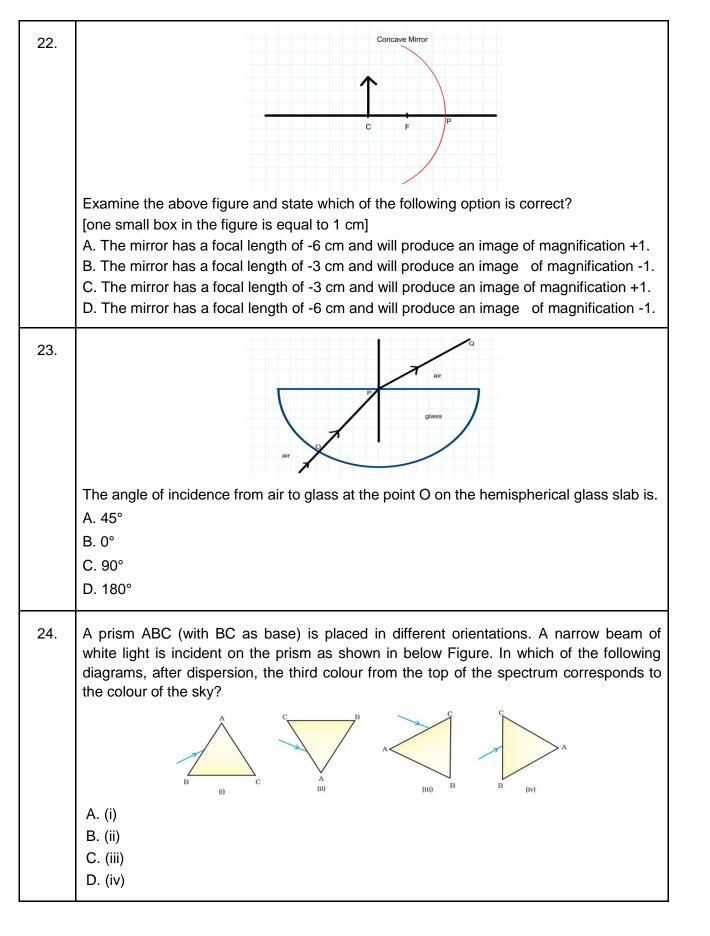
	$CuSO_4 + Fe> Cu + FeSO_4$						
	Which option in the given table correctly represents the substance oxidised and the reducing agent?						
		OPTION	Substance Oxidized	Reducing Agent			
		А	Fe	Fe			
		В	Fe	FeSO <sub>4</sub>			
		С	Cu	Fe			
		D	CuSO <sub>4</sub>	Fe			
7.	The chemi	ical reaction h	between copper and oxyger	can be categorized as:			
		cement react					
		nposition read					
		ination reaction					
	D. Doubl	e displaceme	nt reaction				
8.		?	tions correctly represents		e of Calciur		
8.	Which of	option	PARENT ACID	PARENT BASE	e of Calciur		
8.	Which of	?	HCI	PARENT BASE NaOH	e of Calciur		
8.	Which of	P? OPTION A	PARENT ACID	PARENT BASE	e of Calciur		
8.	Which of	P? OPTION A B	HCI H <sub>2</sub> CO <sub>3</sub>	PARENT BASE NaOH Ca(OH) <sub>2</sub>	e of Calciur		
	Which of Carbonate	Prion A B C D	PARENT ACIDHCIH2CO3H3PO3	PARENT BASE NaOH Ca(OH) 2 CaSO4 CaSO4			
	Which of Carbonate	P? OPTION A B C D Ou protect you	PARENT ACID           HCI           H <sub>2</sub> CO <sub>3</sub> H <sub>3</sub> PO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub>	PARENT BASE NaOH Ca(OH) 2 CaSO4 CaSO4			
	Which of Carbonate How will ye A. By ad B. By ad	Prioriton A B C D Ou protect you ding acid to w ding water to	PARENT ACID         HCI         H2CO3         H3PO3         H2SO4         urself from the heat generativater with constant stirring.         acid with constant stirring.	PARENT BASE NaOH Ca(OH) 2 CaSO4 CaSO4			
	Which of Carbonate How will ye A. By ad B. By ad C. By ad	P? OPTION A B C D Ou protect you ding acid to w ding water to ding water to	PARENT ACID         HCI         H $_2$ CO $_3$ H $_3$ PO $_3$ H $_2$ SO $_4$ urself from the heat generate vater with constant stirring.	PARENT BASE NaOH Ca(OH) 2 CaSO4 CaSO4			
9.	Which of Carbonate How will ye A. By ad B. By ad C. By ad D. By ad	Prioriton A B C D Ou protect you ding acid to w ding water to ding water to ding base to a	PARENT ACID         HCI         H $_2$ CO $_3$ H $_2$ CO $_3$ H $_3$ PO $_3$ H $_2$ SO $_4$ urself from the heat generate vater with constant stirring. acid with constant stirring. acid followed by base.	PARENT BASE NaOH Ca(OH) 2 CaSO4 CaSO4 ed while diluting a concer			
9.	Which of Carbonate How will ye A. By ad B. By ad C. By ad D. By ad D. By ad	Prioritant to ba	PARENT ACID         HCI $H_2CO_3$ $H_3PO_3$ $H_2SO_4$ urself from the heat generate         vater with constant stirring.         acid with constant stirring.         acid followed by base.         acid with constant stirring.         acid with constant stirring.	PARENT BASE NaOH Ca(OH) 2 CaSO4 CaSO4 ed while diluting a concer			
9.	Which of Carbonate How will ye A. By ad B. By ad C. By ad D. By ad D. By ad D. By ad D. By ad	Prioritary and a constraint of the law of constraint to barrier to the second constraint to barrify law of constraint to barrify the law of constraint to barrier to	PARENT ACID         HCI $H_2CO_3$ $H_2CO_3$ $H_3PO_3$ $H_2SO_4$ urself from the heat generate         vater with constant stirring.         acid with constant stirring.         acid followed by base.         acid with constant stirring.         acid with constant stirring.         acid followed by base.         acid with constant stirring.         acid on the constant stirring.         acid followed by base.         acid with constant stirring.         acid on the constant stirring.         acid stirt constant stirring.         acid with constant stirring.         acid with constant stirring.         acid with constant stirring.         acid stirt constant stirt stirt.         acid stirt constant stirt.	PARENT BASE NaOH Ca(OH) 2 CaSO4 CaSO4 ed while diluting a concer			
9.	Which of Carbonate How will ye A. By ad B. By ad C. By ad D. By ad D. By ad Why is it ir A. To ve B. To ve C. To ve	Prioriton A B C D OU protect you ding acid to w ding water to ding water to ding water to ding base to a mportant to ba rify law of corr rify the law of rify the law of	PARENT ACID         HCI $H_2CO_3$ $H_3PO_3$ $H_2SO_4$ urself from the heat generate         vater with constant stirring.         acid with constant stirring.         acid followed by base.         acid with constant stirring.         acid followed by base.         acid with constant stirring.         acid stirring.         acid followed by base.         acid with constant stirring.         acid stirt constant stirring.         acid outh constant stirring.         acid outh constant stirring.         acid outh constant stirring.         acid with constant stirring.         acid outh constant stirring.         acid outh constant stirring.         acid outh constant stirring.	PARENT BASE NaOH Ca(OH) 2 CaSO4 CaSO4 ed while diluting a concer			

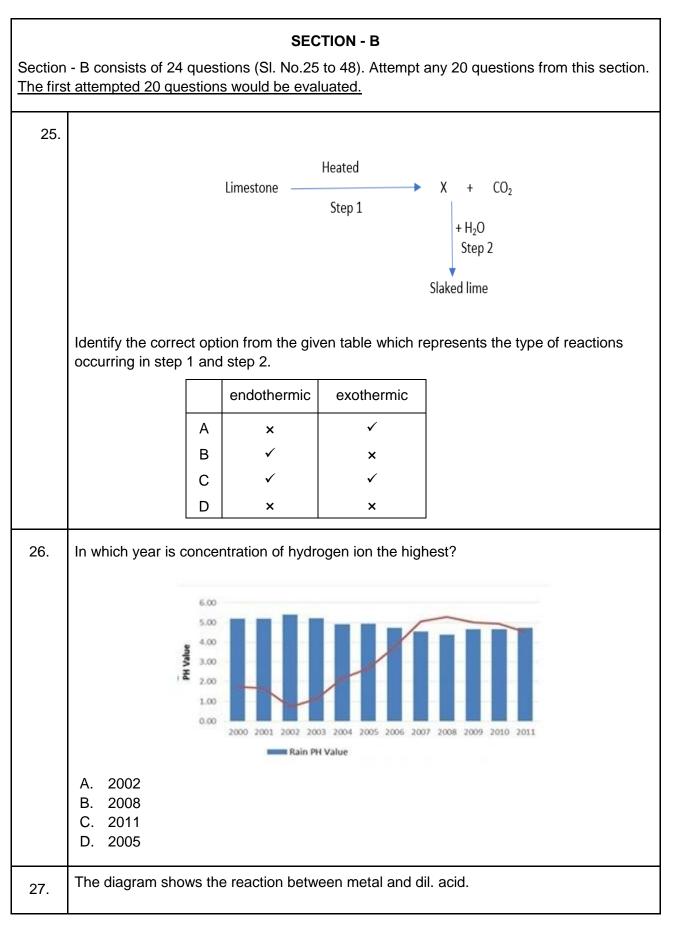




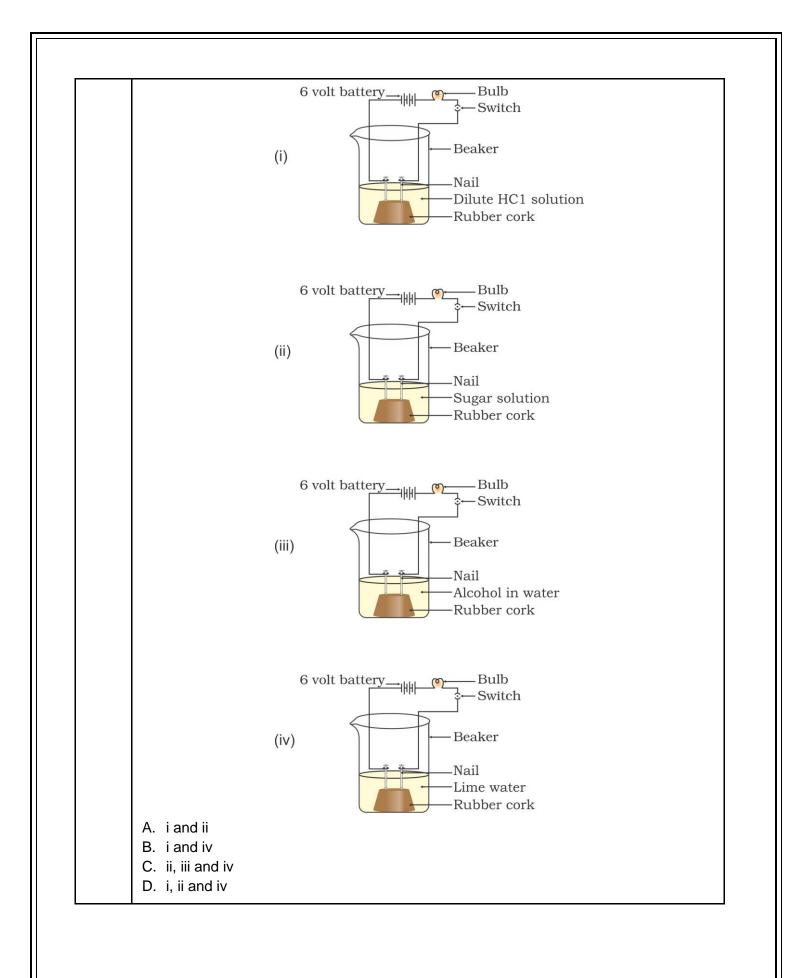
16.	Observe the diagram of Human digestive system.					
	Column I	Column II				
	i	a. The length of this depends on food the organism eats.				
	ii	b. Initial phase of starch digestion				
	iii	c. Increases the efficiency of lipase enzyme action				
	iv	d. This is the site of the complete digestion of				
		carbohydrates, proteins and fats.				
	A. i a) ; ii – b) ; iii – c) ; iv- d)					
	B. i b) ; ii – c) ; iii – d) ; iv- a)					
	C. ib) ; ii – d) ; iii – c) ; iv- a)					
	D. i d) ; ii – a) ; iii –					
	Which of the following mirror is used by a dentist to examine a small cavity in a patient's teeth? A. Convex mirror					
17.	teeth?					
7.	teeth?					
17.	teeth? A. Convex mirror B. Plane mirror					
7.	teeth? A. Convex mirror	ror				







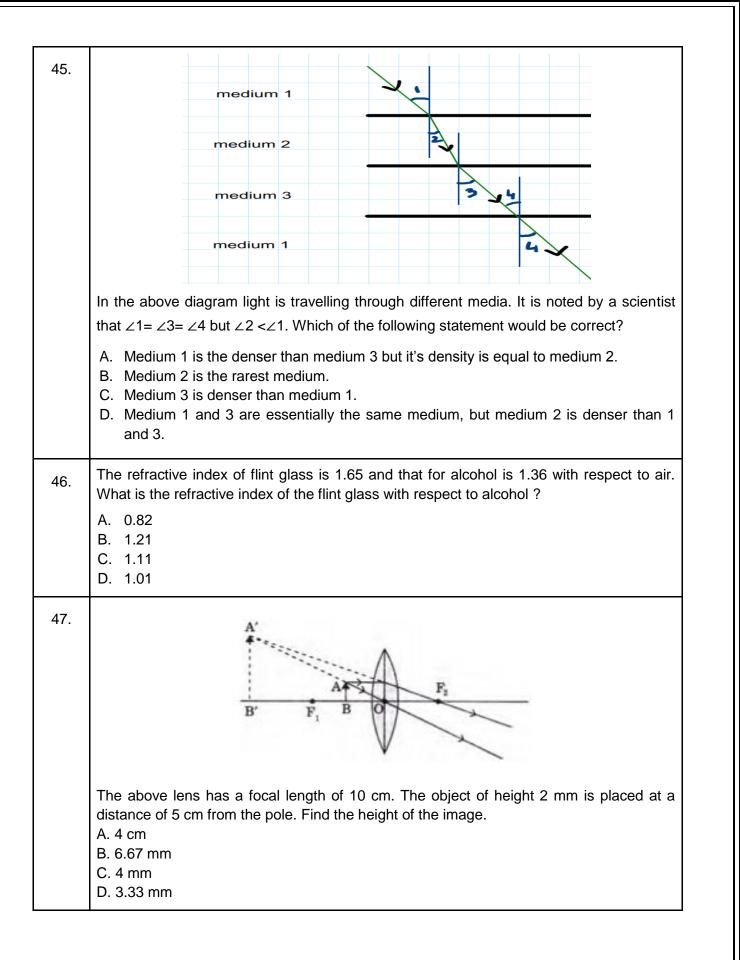
			A B	g+ Hel ogenetic Hel C	D D	
	C. Mg reacts with	ement dil. H dil. H		$_2$ gas which hel $_2$ gas which hel	lps in floating lps in floating	
28.	The table shown be	elow gi	ives information	about four sub	stances: A, B, C and D.	
	SUBSTAI	NCE		ELECTRIC	CAL CONDUCTIVITY	
			POINT (K)	SOLID	LIQUID/ AQUEOUS	
	A		295	Good	Good	
	В		1210	Poor	Good	
	С		1890	Poor	Good	
	D		1160	Poor	Poor	
29.	soap is scrubbed o water. What might i. Soap is acidic ii. Soap is basic	n it, bu be the in natu natural	ut it turns yellov reason for his o ure ire indicator which	v again when t observation? gives reddish t	•	
30.	<ul> <li>A. i and ii</li> <li>B. ii and iii</li> <li>C. i and iv</li> <li>D. ii and iv</li> <li>In which of the follo</li> </ul>	wina s	etups would the	bulb alow?		



A. B B. B C. A	ons selecting the appropriate c oth A and R are true and R is oth A and R are true and R is is true but R is false is False but R is true	ption given below: the correct explanation		swer these	
31.	Assertion: Fresh milk in which baking soda is added, takes a longer time to set as curd. Reason: Baking soda decreases the pH value of fresh milk to below 6.				
32.	<b>Assertion:</b> Decomposition of vegetable matter into compost is an endothermic reaction. <b>Reason:</b> Decomposition reaction involves breakdown of a single reactant into simpler products.				
33.	Assertion: Resins and gum Reason:Resins and gums f		•		
34.	Assertion: Sky appears blue in the day time. Reason: White light is composed of seven colours.				
35.	The table given below sho evolve Hydrogen gas.	ws the reaction of a fe	ew elements with acids an	d bases to	
	Element	Acid	Base		
	A	×	×		
	В	$\checkmark$	✓		
	С	$\checkmark$	×		
	D	$\checkmark$	✓		
	Which of these elements for A. A and D B. B and D C. A and C D. B and D	m amphoteric oxides?			
36.	In which of the following gr during one cycle of passage A. Rabbit, Parrot, Turtle B. Frog, crocodile, Pigeon C. Whale, Labeo, Penguin D. Shark, dog fish, sting ra	through the body?	od flows through the hear	only once	

37.	<ul><li>What is common between extensive network of blood vessels around walls of alveoli and in glomerulus of nephron?</li><li>A. Thick walled arteries richly supplied with blood</li><li>B. Thin walled veins poorly supplied with blood</li><li>C. Thick walled capillaries poorly supplied with blood.</li><li>D. Thin walled capillaries richly supplied with blood</li></ul>
38.	<ul> <li>Plants use completely different process for excretion as compared to animals. Which one of the following processes is <b>NOT</b> followed by plants for excretion?</li> <li>A. They can get rid of excess water by transpiration.</li> <li>B. They selectively filter toxic substances through their leaves.</li> <li>C. Waste products are stored as resins and gums in old xylem.</li> <li>D. They excrete waste substances into the soil around them.</li> </ul>
39.	If the power of a lens is - 4.0 D, then it means that the lens is a A. concave lens of focal length -50 m B. convex lens of focal length +50 cm C. concave lens of focal length -25 cm D. convex lens of focal length -25 m
40.	<ul> <li>Rays from Sun converge at a point 15 cm in front of a concave mirror. Where should an object be placed so that size of its image is equal to the size of the object?</li> <li>A. 30 cm in front of the mirror</li> <li>B. 15 cm in front of the mirror</li> <li>C. Between 15 cm and 30 cm in front of the mirror</li> <li>D. More than 30 cm in front of the mirror</li> </ul>
41.	In which of the following groups of organisms, food material is broken down outside the body and then absorbed in? A. mushroom, green plants, amoeba B. yeast, mushroom, bread mould C. paramecium, amoeba, cuscuta D. cuscuta, lice, tapeworm
42.	<ul><li>In a person the tubule part of the nephron is not functioning at all. What will its effect be on urine formation?</li><li>A. The urine will not be formed.</li><li>B. Quality and quantity of urine is unaffected.</li><li>C. Urine is more concentrated.</li><li>D. Urine is more diluted.</li></ul>
43.	If the real image of a candle flame formed by a lens is three times the size of the flame and the distance between lens and image is 80 cm, at what distance should the candle

	be placed from the lens?					
	A80cm					
	B40 cm					
	C40/3 cm					
	D80/3 cm					
44.	Object Principal Axis					
	While looking at the above diagram, Nalini concluded the following-					
	i. the image of the object will be a virtual one.					
	ii. the reflected ray will travel along the same path as the incident ray but in opposite direction.					
	iii. the image of the object will be inverted.					
	iv. this is a concave mirror and hence the focal length will be negative.					
	Which one of the above statements are <b>correct</b> ?					
	A. i and ii					
	B. i and iii					
	C. ii, iii and iv					
	D. i, ii, iii and iv					



A cable manufacturing unit tested few elements on the basisof their physical properties. 48. **Properties** w Х Υ Ζ No No Yes Malleable Yes Ductile No No Yes Yes Electrical Yes Yes Yes No conductivity **Melting Point** High Low Low High Which of the above elements were dicarded for usage by the company? A. W, X, Y B. X, Y, Z C. W, X, Z D. W, X, Z SECTION – C Section- C consists of three Cases followed by questions. There are a total of 12 questions in this section. Attempt any 10 questions from this section. The first attempted 10 questions would be evaluated. Case The Salt Story From: The New Indian Express 9 March 2021 The salt pans in Marakkanam, a port town about 120 km from Chennai are the third largest producer of salt in Tamil Nadu. Separation of salt from water is a laborious process and the salt obtained is used as raw materials for manufacture of various sodium compounds. One such compound is Sodium hydrogen carbonate, used in baking, as an antacid and in soda acid fire extinguishers. The table shows the mass of various compounds obtained when 1 litre of sea water is evaporated FORMULA MASS OF SOLID COMPOUND PRESENT /g Sodium Chloride NaCl 28.0 8.0 Magnesium Chloride MgCl<sub>2</sub> Magnesium Sulphate MgSO<sub>4</sub> 6.0 Calcium Sulphate CaSO<sub>4</sub> 2.0 Calcium Carbonate CaCO<sub>3</sub> 1.0 TOTAL AMOUNT OF SALT OBTAINED 45.0

49.	Which compound in the table reacts with acids to release carbon dioxide? A. NaCl
	B. CaSO <sub>4</sub>
	C. $CaCO_3$
	D. MgSO <sub>4</sub>
50.	How many grams of Magnesium Sulphate are present in 135g of solid left by evaporation of sea water?
	A. 6g
	B. 12g
	C. 18g D. 24g
51.	What is the saturated solution of Sodium Chloride called?
	A. Brine
	B. Lime water
	C. Slaked lime
	D. Soda water
52.	What is the pH of the acid which is used in the formation of common salt?
	A. Between 1 to 3
	B. Between 6 to 8
	C. Between 8 to 10 D. Between 11 to 13
	D. Detween Thoms
Case	The Figure shown below represents an activity to prove the requirements for photosynthesis. During this activity, two healthy potted plants were kept in the dark for 72 hours. After 72 hours, KOH is kept in the watch glass in setup X and not in setup Y. Both these setups are air tight and have been kept in light for 6 hours. Then, Iodine Test is performed with one leaf from each of the two plants X and Y.
	Bell jar
	Watch-glass containing potassium
	hydroxide Y

53.	<ul><li>This experimental set up is used to prove essentiality of which of the following requirements of photosynthesis?</li><li>A. Chlorophyll</li><li>B. Oxygen</li><li>C. Carbon dioxide</li></ul>
	D. Sunlight
54.	<ul><li>The function of KOH is to absorb</li><li>A. Oxygen.</li><li>B. Carbon dioxide.</li><li>C. Moisture.</li><li>D. Sunlight.</li></ul>
55.	<ul> <li>Which of the following statements shows the correct results of Iodine Test performed on the leaf from plant X and Y respectively?</li> <li>A. Blue - black colour would be obtained on the leaf of plant X and no change in colour on leaf of plant Y.</li> <li>B. Blue - black colour would be obtained on the leaf of plant Y and no change in colour onleaf of plant X.</li> <li>C. Red colour would be obtained on the leaf of plant X and brown colour on the leaf of plant Y.</li> <li>D. Red colour would be obtained on the leaf of plant Y and brown colour on the leaf of plant X.</li> </ul>
56.	<ul> <li>Which of the following steps can be followed for making the apparatus air tight?</li> <li>i. placing the plants on glass plate</li> <li>ii. using a suction pump.</li> <li>iii. applying aseline to seal the bottom of jar.</li> <li>iv. creating vacuum</li> <li>A. i and ii</li> <li>B. ii. and iii</li> <li>C. i. and iii</li> <li>D. ii. and iv</li> </ul>
Case	Noor, a young student, was trying to demonstrate some properties of light in her Science project work. She kept 'X' inside the box (as shown in the figure) and with the help of a laser pointer made light rays pass through the holes on one side of the box. She had a small butter-paper screen to see the spots of light being cast as they emerged.

	X Roy 1
	Ray
57.	<ul> <li>What could be the 'X' that she placed inside the box to make the rays behave as shown?</li> <li>A. a converging lens</li> <li>B. a parallel-sided glass block</li> <li>C. a plane mirror</li> <li>D. a triangular prism</li> </ul>
58.	She measured the angles of incidence for both the rays on the left side of the box to be $48.6^{\circ}$ . She knew the refractive index of the material 'X' inside the box was 1.5. What will be the approximate value of angle of refraction? A. $45^{\circ}$ B. $40^{\circ}$ C. $30^{\circ}$ D. $60^{\circ}$ (use the value: sin $48.6^{\circ} \approx 0.75$ )
59.	<ul> <li>Her friend noted the following observations from this demonstration: <ol> <li>Glass is optically rarer than air.</li> <li>Air and glass allow light to pass through them with the same velocity.</li> <li>Air is optically rarer than glass.</li> <li>Speed of light through a denser medium is faster than that of a rarer medium.</li> <li>The ratio: sin of angle of incidence in the first medium to the ratio of sin of angle of refraction in the second medium, gives the refractive index of the second material with respect to the first one.</li> </ol> </li> </ul>
	<ul> <li>Which one of the combination of the above statements given below is correct.</li> <li>A. ii, iv and v are correct.</li> <li>B. iii and iv are correct.</li> <li>C. i, iv and v are correct.</li> <li>D. iii and v are correct.</li> </ul>

60	If the object inside the box was made of a material with a refractive index less than 1.5 then the						
	Α.	lateral shift of the rays would have been less.					
	В.	lateral shift of the rays would have been more.					
	C.	lateral shift of the rays would remain the same as before.					
	D.	there is not enough information to comment on any of the above statements					

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Questions in lieu of diagram based questions for VI candidates **Total Alternative Questions – 26** Section – A 2. A gas is evolved when Dil. Sulphuric Acid reacts with Zinc granules. It gives a pop sound when lit match stick is introduced near it. Identify the gas? A. Nitrogen B. Hydrogen C. Oxygen D. Carbon dioxide 3. Metal X reacts with Dil. HCl to form Metal Salt and Gas. Identify X? A. Copper B. Mercury C. Silver D. Zinc 5. In the neutralization reaction when excess of acid is added to an alkali, salt and water are produced. What is the nature of the solution after the reaction occurs? A. Amphoteric B. Acidic C. Basic D. Neutral 11 Select the option which gives correct function and /or characteristic: of the four parts of human respiratory system. A. Alveoli: Thin-walled sac like structures for exchange of gases. B. Diaphragm: It is pulled up when we breathe in. C. Trachea: It is supported by bony rings for conducting inspired air. D. Ribs: When we breathe out, ribs are lifted.

	N.L, M and N	represer	nt Mouth cavi	-	1	testine of the human being.					
			L	М	N	_					
		A	lipase	trypsin	pepsin						
		В	amylase	pepsin	trypsin						
		С	trypsin	amylase	lipase	_					
		D	lipase	amylase	pepsin						
14	Given below a correct match.		inctions of sc	ome parts of I	numan circu	ulatory system. Identify the					
	A. Pulmonar B. Artery – ta	-				artsto heart					
	C. Dorsal ao					• •					
	D. Vena cava	a – take:	s deoxygenat	ted blood from	n body par	ts to right atrium					
15	What happens heart?	s when r	ght and left v	ventricle cont	ract during	pumping of blood by human					
	A. Blood trar	nsferred	to the right v	entricle and I	eft ventricle	simultaneously.					
			-			mped into various organs					
	simultane	ously.									
		C. Blood transferred to the right atrium and left atrium simultaneously.									
		D. Blood is received from lungs after oxygenation and is received from various organs									
	of the bod	ly.									
16		i, ii, iii and iv represent mouth cavity, liver, first part of small intestine and complete small									
		intestine respectively of Human digestive system. Match the labeling referred in column I andcorrelate with the function in column II.									
	Colum		The leventh		Column II						
	I		•	•		the organism eats.					
	li li		•	e of starch di	-						
	iii	C	. Increase the	e efficiency c	f lipase enz	zyme action.					
	iv	С	. This is the s proteins an		nplete dige	estion of carbohydrates,					
	A. i c ; ii – d ; iii – a ; iv- d										
		B. i b ; ii – c ; iii – d ; iv- a									
	B. i b ; ii –	C. i a ; ii – c ; iii – d ; iv- c									
		c ; iii – d	,								
			-								
18	C. ia;ii – D. id;ii –	a ; iii – b ct and e	; iv- c	ge is formed l	by a lens, th	nen which of the following					
18	C. i a ; ii – D. i d ; ii – If a virtual, ere options are co	a ; iii – b ct and e rrect?	; iv- c nlarged imag		-	nen which of the following ole and focus.					
18	C. i a ; ii – D. i d ; ii – If a virtual, ere options are co A. It is a con B. It is a con	a ; iii – b ct and e rrect? cave len vex lens	; iv- c nlarged imag s and the ob and the obje	ject is placec ect is placed l	between p between foo	ole and focus. cus and centre of curvature.					
18	C. i a ; ii – D. i d ; ii – If a virtual, ere options are co A. It is a con B. It is a con C. It is a con	a ; iii – b ct and e rrect? cave len vex lens vex lens	s and the obje and the obje and the obje	ject is placed ect is placed l ect is placed l	between p between foo between po	ole and focus. cus and centre of curvature.					

22	Consider the situation where:
	An object is 3 cm (height)
	Mirror is concave with 6 cm focal length.
	Object is placed at the centre of curvature.
	Which of the following options are correct?
	A. The mirror will produce an image of magnification +1.5.
	B. The mirror will produce an image of magnification -1.
	C. The mirror will produce an image of magnification +1.
	D. The mirror will produce an image of magnification -1.5.
23	If a ray passes from air to glass in a spherical glass slab and passes through the centre of the slab without deviation, then the angle of incidence from air to glass at the point or the glass slab is.
	A. 45°
	B. 0°
	C. 90°
	D. 180°
24	Out of all colours making the white light, which one will deviate the most while it passes through a prism?
	A. Red.
	B. Violet.
	C. Blue.
	D. Green.
	Section - B
26.	Even though rain water is the purest form of water, it acts as an electrolyte. However, distilled water cannot be an electrolyte.
	The reason for this is
	A. rain water consists of dissolved oxygen
	B. rain water consists of dissolved oxides of sulphur
	C. rain water consists of dissolved Nitrogen
	D. rain water consists of dissolved oxides of Hydrogen
27.	The reason for different behaviour (floating) of Mg in dil HCl is due to:
	A. Mg is lighter element than dil. HCl
	B. Mg reacts with dil. HCl to produce $H_2$ gas which helps in floating
	C. Mg reacts with dil. HCl to produce $N_2$ gas which helps in floating
	D. Mg reacts with dil. HCl to produce CO <sub>2</sub> gas which helps in floating
30.	Which of the following solutions are electrolytes?
	i. Dil. HCl
	ii. Sugar Solution
	iii. Alcohol in water iv. Lime water

	A. i and ii
	B. i and iv
	C. ii, iii and iv
	D. i, ii and iv
44.	<ul> <li>NalinI draws a ray diagram for an object in front of a concave mirror. She draws a ray starting from the top of the object and falling on the mirror perpendicularly.</li> <li>The ray after reflection will</li> <li>A. pass through focus.</li> </ul>
	B. pass through pole.
	C. pass through the centre of curvature.
	D. pass through any point on the principal axis.
45.	If the refractive index of water with respect to air is 1.33 and of that of glass with respect to air is 1.5 then
	A. water is optically denser than glass.
	B. air is optically densest of all the three media.
	C. air's optical density is between glass and air.
	D. glass is optically denser than water.
47.	A convex lens has a focal length of 10 cm. The object of height 2 mm is placed at a distance of 5 cm from the pole. Find the height of the image.
	A. 4 cm
	B. 6.67 mm
	C. 4 mm D. 3.33 mm
	Section - C
Case	A student was-performing an activity to prove the requirements for photosynthesis. During this activity, he kept two identical healthy potted plantsA and Bin dark for 72 hours. After 72 hours, he covered plant A and B by bell shaped jars separately. While covering the plants with separate bell jars, he kept KOH in the watch glass by the side of the plant in setup A and not in setup B. Both these setups were made air tight and were kept in light for 6 hours. Then, lodine Test was performed with one leaf from each of the two plants A and B.
53.	This experimental set up is used to prove essentiality of which of the following requirements of photosynthesis? A. Chlorophyll B. Oxygen C. Carbon dioxide D. Sunlight
54.	The function of KOH is to absorb
	<ul> <li>A. Oxygen.</li> <li>B. Carbon dioxide.</li> <li>C. Moisture.</li> <li>D. Sunlight.</li> </ul>

55.	Which of the following statements shows the correct results of Iodine Test performed on
	the leaf from plant A and B respectively?
	A. Blue - black colour would be-obtained on the leaf of plant A
	B. Blue - black colour would be-obtained on the leaf of plant B
	C. Red colour would be obtained on the leaf of plant A
	D. Red colour would be obtained on the leaf of plant B
56.	Which of the following steps can be followed for making the apparatus air tight?
	i. placing the plants on glass plate
	ii. using a suction pump.
	iii. applying Vaseline to seal the bottom of jar.
	iv. creating vacuum
	A. i and ii
	B. ii. and iii
	C. i. and iii
	D. ii. And iv
Case	In an experiment, Pooja used a equilateral triangular glass prism and projected a narrow beam of white light source from one side of the surface of the prism. She placed a screen on the other side and saw many colours appearing as patches on the screen.
	But when she used a red light source, she could only see a red patch on the screen.
	Similarly she used a blue and green light source and could only see one colour patch on
	both occasions.
57.	The phenomenon that she was trying to demonstrate was:
	A. Dispersion
	B. Reflection
	C. Refraction
	D. Scattering.
58.	The reason why she could no see any other colour when the red light was used was because:
	A. Red colour does not refract in prism.
	B. Red colour is monochromatic.
	C. The prism was defective.
	D. The prism is opaque to red colour.
59.	Which of the following can be the correct explanation that Pooja can give to her friends to explain this phenomenon?
	A. Different lights travel faster in the glass prism at different rates.
	B. Any light would disperse in the prism.
	C. Enough data is not available to make a scientific explanation in this case.
	D. Different wavelengths travel at different speeds in the glass.
60.	She also could relate to another natural phenomenon that we observe on a rainy humid day as the sun comes out. What could be that phenomenon?
	A. Lightning.
	B. Blueness of the sky.
	C. Rainbow.
	D. Scattering of light.