

TERM-1 CLASS X GENERAL SCIENCE

SECTION - A

Attempt any 20 questions out of 24 questions The first attempted 20questions would be evaluated.

1.	The neutralization reaction between	an acid and a base is a type of:
	 a. Double displacement reaction 	 b. Displacement reaction
	c Addition reaction	d Decomposition reaction

- 2. The phenomenon of scattering of light by the colloidal particles gives rise to Tyndall effect, these colloidal particles are
 - a) Smoke and dust particles
 - b) tiny water droplets
 - c) molecules of air
 - d) all of these
 - e)
- When green coloured ferrous sulphate crystals are heated, the colour of the crystal changes because
 - (a) it is decomposed to ferric oxide crystallisation

(b) it loses water of

(c) it forms SO₂

(d) it forms SO₃

- 4. The inner lining of the small intestine has numerous finger-like projections called
 - a) Pseudopodia

c) cilia

b) Villi

- d) flagella
- 5. On immersing an iron nail in CuSO₄ solution for few minutes, you will observe
 - (a) no reaction takes place
 - (b) the colour of solution fades away
 - (c) the surface of iron nails acquire a black coating
 - (d) the colour of solution changes to green
- 6. Animals have evolved different organs for
 - a) the uptake of oxygen from the environment

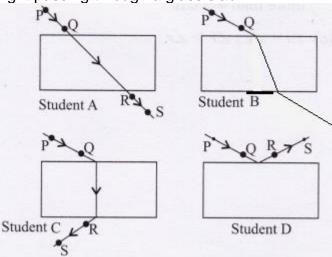


- b) for getting rid of the carbon dioxide
- c) Both (a) and (b)
- d) None of the above
- Alkalis are

 - (a) acids, which are soluble in water (b) acids, which are insoluble in water
 - (c) bases, which are insoluble in water
- (d) bases, which are soluble in water

Question 13:

Four students A, B, C and D traced the paths of incident ray and the emergent ray by fixing pins P and Q for incident ray and pins R and S for emergent ray for a ray of light passing through a glass slab.



The correct emergent ray was traced by the student:

- (a) A
- **(b)** B
- (c) C
- **(d)** D
- Copper sulphate crystals when heated strongly, lose their water of crystallization to give anhydrous copper sulphate accompanied by a change in color from:
 - a. Blue to green

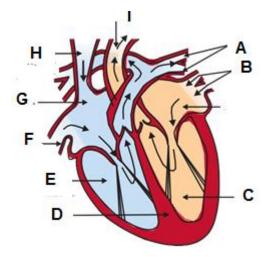
b. Blue to white

c. Blue to sky blue

d. Blue to grey



10.



In the above figure which alphabet represents pulmonary vain

- a) A
- b) G

- c) B
- d) I
- 11. Which of the following represent the correct order of decreasing reactivity?
 - a) Mg > Al > Zn > Fe

b) Mg > Zn > Al > Fe

- c) Al > Zn > Fe > Mg
- d) Mg > Fe > Zn > Al
- 12. From the figure of Q.No. 10, the function of I is
 - a) Collect the impure blood from the different parts of the body
 - b) supply the impure blood to the different parts of the body
 - c) supply the pure blood from the heart to the different parts of the body
 - d) None of these
- 13. An element X is soft and can be cut with the help of a knife. It is very reactive to air and cannot be kept open in the air. It reacts vigorously with water. Identify the element from the following:
 - (a) Mg

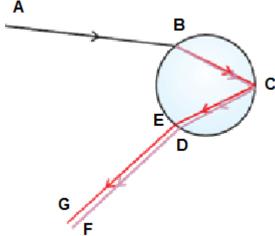
(b) Na

(c) P

(d) Ca



14.

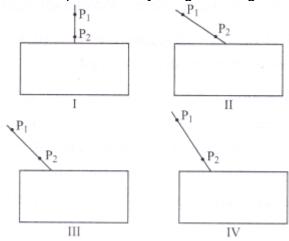


The phenomenon of light which takes place at C is

- a) Reflection None of these
- b) refraction
- c) total internal reflection d)

15. Question 14:

Study the following four experimental set-ups I, II, III and IV for the experiment, "To trace the path of a ray of light through a rectangular glass slab".



Which of the marked set-ups is likely to give best results (P₁ and P₂ are the positions of pins fixed on the incident ray)?

- (a) I
- **(b)** ||
- (c) III
- (d) IV

16. The process of digestion is completed by:

(a) Intestinal juice

(b) trypsin

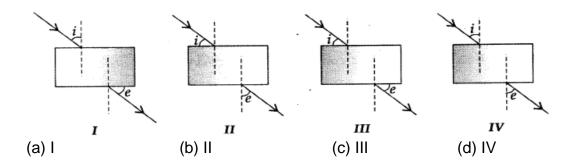


	(c) bile juice	(d) pepsin	
17.	The separation of H+ ion from HCl molecules cannot occur in the absence of		
	a) water.	c) base	
	b) Salt	d) acid	
18.	The inner lining of the stoma hydrochloric acid is a) Mucus	ch is protected by one of the followings from b) Salivary amylase	
	c) Pepsin	d) Bile	
19.	The pancreas pour their secr a) Small intestine c) stomach	retion into b) large intestine d) Duodenum	
20.	Which of the following compo a) proteins c) Minerals	components of food is digested by amylase? b) fats d) carbohydrates	
21.	If an incident ray passes thro (a) pass through the pole (c) retrace its path curvature	ough the focus, the reflected ray will (b) be parallel to the principal axis (d) pass through the centre of	
22.	Magnifying power of a conca (a) always > 1 (c) always = 1	ve lens is (b) always < 1 (d) can have any value	
23.	mirror and the lens are likely (a) both concave	erical lens each have a focal length of -10 cm. The to be (b) both convex the lens is convex (d) the mirror is convex and the	
24.		ent on tracing the path of a ray of light passing through a different angles of incidence. He can get a correct	

labelling indicated in figure:

measure of the angle of incidence and the angle of emergence by following the



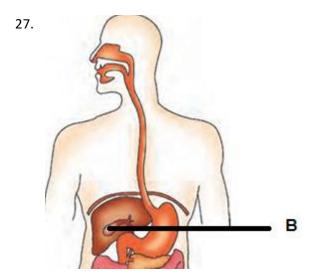


SECTION – B Attempt any 20 questions out of 24 questions The first attempted 20questions would be evaluated.

- 25. The physical states of the reactants and products are mentioned along with chemical formulae in a chemical equation to make it
 - a) More convenient

- c) more informative
- b) to satisfy the law of conservation of mass
- d) None of the above

- c)
- 26. At noon, the Sun appears white as
 - a) only a little of the blue and violet colours are scattered.
 - b) Rays are falling perpendicularly
 - c) Rays need to travel a shorter distance
 - d) All of the above



In the above diagram, B represents for

a) Liver

c) gall bladder

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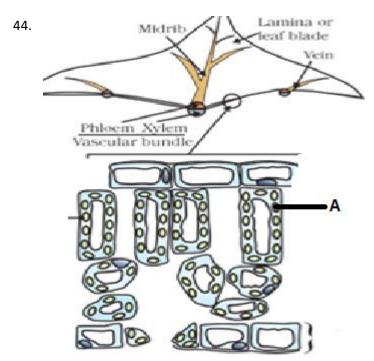


	b) Pancreas	d) stomach
28.	Which of the following is an endothermic pro (a) Dilution of sulphuric acid (c) Condensation of water vapours	ocess? (b) Sublimation of dry ice (d) Respiration in human beings
29.	Which of the following statements about a) They synthesize carbohydrates by using sunlight and chlorophyll b) They store carbohydrates in form of starc c) They convert carbon dioxide and water in sunlight d) They form the first trophic level in food characteristics.	carbon dioxide, water in presence of the to carbohydrates in the absence of
30.	Which among the following is necessary to or wound? (a) White Blood Cells (c)Platelets	carry out the blood coagulation in a cut (b) Blood plasma (d)Red blood cells
31.	Brine is an (a) aqueous solution of sodium hydroxide carbonate (c) aqueous solution of sodium chloride bicarbonate	(b) aqueous solution of sodium(d) aqueous solution of sodium
32.	The red light has a wavelength about 1.8 tin a) Red light scatter more than blue light blue light b) Red light scatter less than blue light	c) Red light scatter equally as the
33.	The Sun is visible to us before the actual su because of atmospheric refraction is a) About 1 minute b) about 3 minutes 	nrise, and after the actual sunset c) about 2 minutes d) Can't say definitely
34.	Fatty foods become rancid due to the proce (a) oxidation(c) reduction	ss of (b) corrosion (d) hydrogenation
35.	The apparent random wavering or flickering stream of hot air rising above a fire is the phase a) Reflection b) Diffraction	of objects seen through a turbulent



36.	An aqueous solution turns red litmus solution blue. Excess addition of which of the following solution would reverse the change?		
	(a) Baking powder (b) Lime		
	(c) Ammonium hydroxide solution (d) Hydrochloric acid		
37.	The vein which brings clean blood from the lungs into the heart is known as: a) Pulmonary vein (c) Hepatic vein b) Superior vena cava (d) Pulmonary artery		
38.	Bauxite is an ore of		
	a) Iron b) Aluminium		
	c) Mercury d) Copper		
39.	Any light that gives a spectrum similar to that of sunlight is often referred to as a) white light b) Infrared light d) None of these		
40.	Which of the following pairs of reactants will go undergo a displacement reaction? (a) CuSO ₄ + Fe (b) ZnSO ₄ + Fe		
	(c) MgSO ₄ + Fe (d) Ca(SO ₄) ₂ + Fe		
41.	An object, 4.0 cm in size, is placed at 25.0 cm in front of a concave mirror of focal length 15.0 cm. The nature and the size of the image is		
	 a) inverted and diminished b) erect and enlarged c) inverted and enlarged d) erect and diminished 		
42.	The diameter of the reflecting surface of spherical mirror is called its		
	a) Radius of curvature c) aperture		
12	b) Aparature d) pole of the mirror The rate of breathing in aquatic organisms is much faster than that seen in		
43.	terrestrial organisms as		
	a) There is poor system of absorption of oxygen in aquatic organisms		
	 Since the amount of dissolved oxygen is low compared to the amount of oxygen in the air 		
	c) Aquatic organisms remain under the water		
	d) None of these		





In the above diagram, A stands for

- a) Upper epidermis
- b) Air spaces

- c) chloroplast
 - d) cuticle
- 45. The conversion of vegetable matter into compost is an example of a/an
 - a) exothermic reaction.

C) endothermic reaction

b) decomposition reaction

- d) None of these
- 46. The processes, in which ATP is broken down giving rise to a fixed amount of energy which can drive the endothermic reactions taking place in the cell.
 - a) Exothermic process taking place in the cell
 - b) endothermic process taking place in the cell
 - c) oxidation process taking place in the cell
 - d) None of the above
- 47. The centre of curvature of a spherical mirror is
 - a) not a part of the mirror

c) a part of the mirror

b) Lie on the mirror

- d) None of these
- 48. The organisms, who break-down the food material outside the body and then absorb it is/are
 - a) Fungi

c) yeast

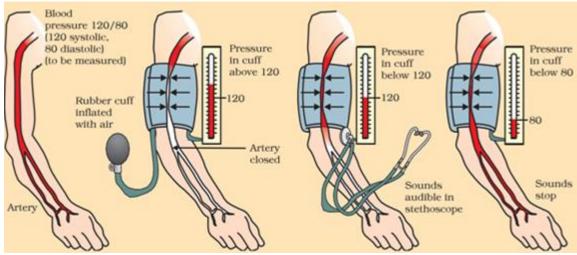
b) mushrooms

d) all of these

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SECTION – C Section C consists of three case based Attempt any 10 questions out of 12 questions The first attempted 20questions would be evaluated.



The above figure shows the conditions under which the systolic and diastolic of a man can be measured. Blood pressure plays an important role in the health of a human being. Study the figure and answer the following questions.

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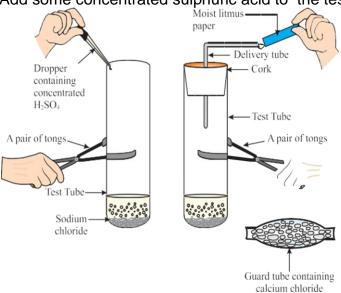
- 49. The name of the device used to measure blood pressure is
 - a) Manometer
 - b) Barometer
 - c) Sphygmomanometer
 - d) None of the above
- 50. Under which of the following condition(s) the high blood pressure is recorded
 - a) caused by the constriction of arterioles
 - b) caused by the constriction of capillaries
 - c) caused by the constriction of veins
 - d) None of the above
- 51. The use of a stethoscope while measuring the blood pressure is
 - a) To hear the sound
 - b) To record the heart beat
 - c) To read the pulse rate
 - d) None of the above
- 52. The consequences of high blood pressure is
 - a) increased resistance to blood flow
 - b) lead to the rupture of an artery



- c) lead to the internal bleeding.
- d) All of the above

Take about 1g solid NaCl in a clean and dry test tube and set up the apparatus as shown below

Add some concentrated sulphuric acid to the test tube.



- 53. Name the gas, coming out of the delivery tube is
 - a) Hydrogen gas
 - b) Hydrogen chloride gas
 - c) Sulphur dioxide gas
 - d) None of the above
- 54. The gas evolved when tested with a dry litmus paper then the color of blue litmus changes to
 - a) Red
 - b) Remain unchanged
 - c) White
 - d) Non of the above
- 55. The gas evolved when tested with a moist litmus paper then the color of blue litmus changes to
 - a) Red
 - b) Remain unchanged
 - c) White
 - d) None of the above
- 56. The role of calcium chloride in this experiment is

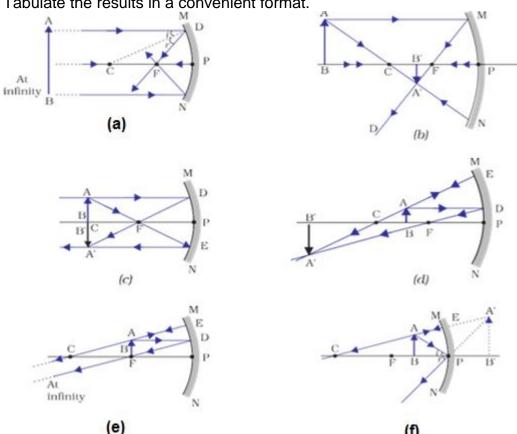
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- a) To absorb oxygen
- b) To absorb carbon dioxide
- c) To absorb moisture
- d) None of the above

Draw neat ray diagrams for each position of the object shown below Compare your diagram with those given in Fig. 10.7.

Tabulate the results in a convenient format.



- 57. The convenient rays taken for the formation of image in the mirror experiment are
 - a) Parallel to the principal axis
 - b) Passing through the focus
 - c) Passing through the centre of curvature
 - d) All of the above
- 58. Which one of the above figure (s) is used in head light in car
 - (a) c
 - (b) d
 - (c) a
 - (d) None of these



- 59. Which of the above diagram shows similar property of a place mirror related to image height and image distance (without considering the real and virtual nature)
 - (a) e
 - (b) f
 - (c) d
 - (d) c
- 60. The information we can obtain from the above diagram is
 - a) converging property of light
 - b) diverging property of light
 - c) Reversibility property of light
 - d) None of the above