





- XX. Which of the following is not non-biodegradable?
- |                   |            |
|-------------------|------------|
| a) Vegetable Peel | b) Glass   |
| c) Plastic Bottle | d) Leather |

**Match Column A with Column B**

	<b>Column A</b>	<b>Column B</b>
XXI.	Ammeter	Concave Lens
XXII.	Unit of Resistance	$1/V+1/U=1/F$
XXIII.	Near Sightedness	Ethanol
XXIV.	Mirror Formula	Electric Current
XXV.	Drinking Alcohol	Ohm

(25×1=25)

**Two Marks Questions**

**[Attempt any 11]**

- Q.2 Compare functioning of Alveoli in the lungs and nephrons in the kidneys with respect to their function
- Q.3 Why should a Magnesium ribbon be rubbed before burning in the air?
- Q.4 Why should curd and other sour substances not to be kept in brass or copper vessels?
- Q.5 What is the role of acid on our stomach?
- Q.6 What are the two properties of carbon which lead to the huge number of carbon compounds we see around us?
- Q.7 How does our body respond when adrenaline is secreted in our blood?
- Q.8 How is the sex of child determined in human beings
- Q.9 Define Principal focus of a concave mirror
- Q.10 What is accommodation in human eye?
- Q.11 Give the characteristics of magnetic field lines
- Q.12 What is ozone? How does it affect an ecosystem?
- Q.13 Which two gases are released during electrolysis of water? Mention chemical Equation related to it
- Q.14 Why do stars twinkle?
- Q.15 What would be the consequence of deficiency of hemoglobin in our bodies?
- Q.16 A doctor has prescribed a corrective lens of power +1.5D. Find Focal Length of lens. Is prescribed lens diverging or converging.

### Three Marks Questions

[Attempt any 6]

Q.17 When an iron nail is dipped in Copper Sulphate solution, what will be the observation after some time? Explain with equation.

Q.18 What is homologous series? Explain with help of example

Q.19 Draw the structure of Neuron and explain its functions

Q.20 Write two differences between Real Image and Virtual Image. What will be the size of image formed by a convex lens when object lies at  $2F$

Q.21 What is Myopia? What are the reasons of it? How the defect can be corrected?

Q.22 Explain biological Magnification

Q.23 How does chemical coordination takes place in plants?

Q.24 The focal length of a Concave lens is 2m. Calculate the power of the lens.

Q.25 How would you distinguish experimentally between an alcohol and a carboxylic acid

### Five Marks Questions

Q.26

a) Differentiate between sexual reproduction and asexual reproduction (any 3)

b) Write 2 advantages of sexual reproduction over asexual reproduction

Or

a) Draw a labelled Diagram of the longitudinal section of a flower

b) What are the changes seen in girls in the time of puberty?

Q.27 Differentiate between metals and non-metals

Or

a) What are Amphoteric Oxides? Give 2 examples of amphoteric oxides.

b) Why do ionic compounds have high melting points?

Q.28 What is Ohm's Law? How will you verify Ohm's law in the laboratory?

Or

- a) An electric heater of resistance 8 Ohms draws 15 A from service mains for 2 hours. Calculate the rate at which heat is developed in the heater.
- b) Why is series arrangement not used in domestic circuits?