Model Test Paper SCIENCE Class-10th

Max. Marks 80

Q.1 Attempt the following Multiple Choice Questions.

I.	Gurpreet brought some mint from the market. After some days there was a strong smell from mint. Why did this happen?				
	a) Reduction	b) Oxidation			
	c) Corrosion	d) Displacement			
		e)			
II.	When we mix lead nitrate and potassium iodide, yellow				
	precipitate is formed. Can you name the precipitate?				
	a) lead oxide	b) potassium nitrate			
	c) potassium oxide	d) lead iodide			
III.	PH of a neutral solution is				
	a) Less than 7	b) 7			
	c) Greater than 7	d) 0			
IV.	Tartaric acid is found in				
	a) Vinegar	b) Nettle Sting			
	c) Tomato	d) Tamarind			
V.	The ability of metals to be drawn into thin wires is known as				
	a) Ductility	b) Malleability			
	c) Sonorous	d) Conductivity			
VI.	During the electrolytic refining of copper, cathode is made of				
	a) Impure copper	b) Pure copper			
	c) Zinc	d) Iron			
VII.	What is full form of ATP?				
	a) Adenosine Tri-Phosph				
	c) Adenosine Tetra-Pho	sphate d) Amino Tetra Phosphate			
VIII.	What happens when water is released from guard cells?				
	a) Guard cell get closed	b)Guard cell get open			
137	c) Guard cell become gre	·			
IX.	Select the mode of excretion in plants.				
	a) Dead leaves	b) Transpiration			
	c) Cellular Vacuoles	d) All the above			

Χ.	Which part of the brain can be divided into two hemispheres?				
	a)	Mid brain	b)	Fore brain	
	c)	Hind brain	d)	Spinal cord	
XI.	Which of the following is not an involuntary action?				
	a)	Vomitting	b)	Salivation	
	c)	Heart beat	d)	Chewing	
XII.	The disease caused due to sexual contact is				
	a)	AIDS	b)	Cholera	
	c)	Elephant's Foot	d)	Tuberculosis	
XIII.	The human which has XY chromosome is called				
	a)	Female	b)	Hybrid	
	c)	Male	d)	None of the above	
XIV.	Which of the following material cannot be used to make a lens?				
	a)	Water	b)	Glass	
	c)	Plastic	d)	Clay	
XV.	The mode of reproduction in Spirogyra is				
	a)	Budding	b)	Fragmentation	
	c)	Regeneration	d)	Fission	
XVI.	What will be the colour of sky when seen from moon?				
	a)	Blue	b)	Green	
	c)	Black	d)	Yellow	
XVII.	Which of the following metal is used in the making the filament of electric bulb?				
	a)	Copper	b)	Aluminium	
	c)	Tungsten	d)	lead	
XVIII.	Choose the instrument used to protect electric circuits from short circuiting and over loading.				
	a)	Generator	b)	Motor	
	c)	Fuse	d)	None of the above	
XIX.	What is the molecular formula of ozone?				
	a)	O_2	b)	O_3	
	c)	O ₅	d)	O ₁₁	

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

	Column A	Column 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

 $(25 \times 1 = 25)$

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?
- 0.27 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?

- 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?