Zoology Teachers Association Malappuram

First year Higher Secondary Revision Series Test 2022

ZOOLOGY

Answer Key

Qn No	Scoring key	Score
Answer all questions from 1-3. Each carry 1 score (3x1= 3)		
1	**Peptide bond**	1
2	**c. presence of different types of teeth**	1
3	**Collagen**	1
Answer any nine questions from 4-14. Each carries two scores (9x2=18)		
4	A**denosine, Cytidine** **Phosphodiester bond / Phosphoester bond**	0.5 x2=1 1
5	**a. Salivary amylase / Ptyalin / Amylase** **b. Starch** **c. Temperature**	1 0.5 0.5
6	**Maltase – Digestion of Maltose/** **Sucrase – Digestion of Sucrose/** **Lactase – Digestion of Lactose/** **Dipeptidase – Digestion of Dipeptides/** **Lipases – Digestion of Lipids/** **Nucleotidase – Digestion of Nucleotides/** **Nucleosidase – Digestion of Nucleosides/** **Disaccharidases – Digestion of Disaccharides (any two)**	1×2=2
7	**a. Protein- Energy Malnutrition** **b. Marasmus & Kwashiorkar**	1 0.5×2=1
8	a. **A – Gall bladder** **B- Hepato-pancreatic duct** b. **Bile.** **Emulsification of fat / Breaking down of fats in to small micelles / Activation of Lipases**	0.5×2=1 0.5 0.5
9	a) **Uracil, Sugar, Phosphate** (each response carries half score) b) **Thymus, sugar**	1 1
10	a. A **Secondary structure** B **Tertiary structure** b. **GLUT 4 ,** **Enables glucose transport in to the cell**	0.5×2=1 0.5 0.5
11	a. **Apoenzyme** b. **Prosthetic group/ coenzyme/ metal ions** (Any two) c. **Zinc**	0.5 0.5×2=1 0.5
12	a) **Primary metabolites & Secondary metabolites**	0.5×2=1

b) Primary metabolites **Ex: Amino acids, sugars (any relevant response)** (Any one response carries half score)
Secondary metabolites Ex: Pigments [Carotenoids]/ Alkaloids/ Essential oils/ Toxins *(Abrin,*/ Ricin)/ Lectins/ Drugs/ Rubber/ Gums/ Cellulose/ (any relevant response) (any one response carries half score) — 0.5×2=1

13 a. **Stomach / Cardiac portion of stomach** — 1
b. **Pepsin – Protein digestion/ Rennin – Protein digestion** — 1

14

Carbohydrate digesting enzymes	Protein digesting enzymes
Salivary amylase, Maltase, Lactase,	Trypsin, Pepsin, Carboxypeptidase

2

Answer any three questions from 15-18. Each carries three scores (3x3=9)

15 a. **A- Serosa B- Muscularis C- Sub mucosa D- Mucosa** — 0.5×4=2
b) **Villus & Rugae** — 0.5×2=1

16

Classification of enzymes	Reactions
Lyases	Removal of groups by mechanism other than hydrolysis
Dehydrogenases	Catalyse oxido reduction between two substrate
Ligases	Linking together of molecules
Transferases	Transfer of a group
Isomerases	Catalyse inter conversion of isomers
Hydrolases	Catalyse hydrolysis of ester, glycosidic bond

0.5×6=3

17 **a. A-Fatty acid / Palmitic acid B- Glycerol/Trihydroxy propane C- GLUCOSE D-Adenine** — 0.5×4=2
b. Triglycerides — 1

18 **Digestion in stomach** — 1

Proteins $\xrightarrow[PH1.8]{Pepsin}$ proteoses, peptones

Digestion in small intestine

Proteins, Peptones, Proteoses	Trypsin,chymotrypsin, carboxypeptidase	Dipeptides

1

Dipeptides $\xrightarrow{Dipeptidase}$ Aminoacids

1