

# Zoology Teachers Association Malappuram

First Year Higher Secondary Pre model Examination-2022

## Zoology Key

| Qn  | Scoring Key  | Score                    |
|---|--|--------------------------|
| <b>Answer all questions from 1 to 3. Each carry 1 score</b>       |  |                          |
| 1   | Species name/Specific epithet  | 1                        |
| 2   | Stomochord   | 1                        |
| 3   | a)Lungs:Pleural membrane   | 1                        |
| <b>Answer any Nine questions from 4 to 14. Each carry 2 score</b> |  |                          |
| 4   | (a)Fructose<br>(b) Glycosidic bond   | 1<br>1                   |
| 5   | a) Mucus neck cell: Secrete mucus<br>b)Parietal cells or oxyntic cells :Secrete HCl and Intrinsic factor                             | 1<br>1                   |
| 6   | a)Mosaic vision<br>b)Plasma and Hameocytes   | 1<br>0.+0.5              |
| 7   | a)Areolar tissue<br>b)Adipose tissue<br>c)Smooth muscle/Non striated muscle/Non striped muscle/Visceral muscle<br>d)Neuroglial cells | 0.5<br>0.5<br>0.5<br>0.5 |
| 8   | (a)A-Diaphragm<br>B-Trachea<br>C-Lungs<br>D -Epiglottis  | 0.5<br>0.5<br>0.5<br>0.5 |
| 9   | a)Cardiac output=Stroke volume ×Heart beat<br>=70ml ×70<br>=5040ml/minute<br>b)A-AVN B-Purkinje fibre                                | 1<br>0.5+0.5             |
| 10  | a) Crustaceans like prawns<br>b) Protonephridia or flame cells<br>c) Earthworms / annelids<br>d)Malpighian tubule                    | 0.5<br>0.5<br>0.5<br>0.5 |
| 11  | a) Malpighian body (renal corpuscle)<br>b) A-Afferent arteriole<br>B-Proximal convoluted tubule/PCT                                  | 1<br>0.5<br>0.5          |
| 12  | a) Ilium, Ischium and Pubis<br>(b)Gout: Inflammation of joints due to accumulation of uric acid crystals                             | 0.5×3<br>0.5             |
| 13  | (a) Cartilaginous joints<br>(b)Flat skull bones<br>(c) Gliding joint<br>(d) Between carpal and metacarpal of thumb                   | 0.5<br>0.5<br>0.5<br>0.5 |

|   |   |  |
|---|---|--|
| 14  | a) Limbic lobe or Limbic system<br>b) Medulla<br>c) Association areas<br>d) Hypothalamus  | 0.5<br>0.5<br>0.5<br>0.5               |
| <b>Answer any three questions from 15 to 18. Each carries Three score</b> |   |  |
| 15  | a) Insulin<br>b) PTH/Para thyroid hormones<br>c) Melatonin<br>d) Catecholamine/epinephrine and nor epinephrine/adrenaline and nor adrenaline<br>e) ANF/Atrial natriuretic factor<br>f) Erythropoietin   | 0.5<br>0.5<br>0.5<br>0.5<br>0.5<br>0.5 |
| 16  | a) A - Activation energy with enzyme<br>B- Activation energy without enzyme<br>b) Temperature, pH, Change in substrate concentration or binding of specific chemicals (any 2 factors)<br>c) The activity of an enzyme is also sensitive to the presence of specific chemicals that bind to the enzyme. Such chemical is called an inhibitor. In competitive inhibition, the inhibitor closely resembles the substrate in its molecular structure and inhibits the activity of the enzyme. | 0.5<br>0.5<br>0.5+0.5<br><br>1         |
| 17  | a) Phylum Porifera<br>b) Phylum Platyhelminthes<br>c) Phylum Mollusca<br>d) Phylum Annelida<br>e) Phylum Chordata<br>f) Phylum Arthropoda   | 0.5<br>0.5<br>0.5<br>0.5<br>0.5<br>0.5 |
| 18  | a) A- Cyclostomata<br>B- Gnathostomata<br>C- Tetrapoda<br>D- Osteichthyes<br>b) Subphyla Urochordata and Cephalochordata are often referred to as protochordates  | 0.5<br>0.5<br>0.5<br>0.5<br>0.5+0.5    |

Answer key prepared by

**Academic wing-Zoology association Malappuram**