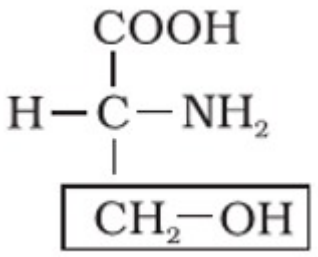
FIRST YEAR HIGHER SECONDARY MODEL EXAMINATION FEBRUARY-2019

ZOOLOGY ANSWER KEY

Qn	Answer	Score
1	**a)Bilateral symmetry** **b)Warm blooded/ Homoiothermous**	**0.5** **0.5**
2	**b)*Rana tigrina***	**1**
3	**Obelia**	**1**
4	**a)Phylum Hemichordata** **b)Balanoglossus and saccoglossus (any 1 example)**	**1** **1**
5	a)**cartilaginous endoskeleton** **Mouth is located ventrally.** **Gill slits are separate and without operculum** **The skin is tough, containing minute placoid scales.** **Teeth are modified placoid scales which are backwardly directed.** **absence of air bladder (Any four)** **b) Class – Chondrichthyes**	**2**
6	**a)A-chondrocyte (cartilage cell) B-Collagen fibers** **b)Osteocyte**	**1** **1**
7	a)Labrum c)Hypopharynx d)Labium e)Mandible	**2**
8	a)1-Enterokinase 2-Chymotrypsin 3-Dipeptide b)Islets of langerhans	**1.5** **0.5**
9	Larynx----opening glottis----guarded by epiglottis	**2**
10.	a)ADH/Vasopressin b)Gout/Osteoporosis c)Aldosterone d)Haemodialysis	**0.5** **0.5** **0.5** **0.5**
11	a)Axial skeleton b)Vertebral coloumn c)12 Pairs of ribs d)flat bone of sternum / one	**0.5** **0.5** **0.5** **0.5**
12	a)Adrenaline and nor adrenaline (epinephrine and nor epinephrine) b)Adrenal gland c)kidney	**1** **0.5** **0.5**
13	a)Thyroxine or T4 b)Thymosin c)Insulin d)Progesterone	**0.5** **0.5** **0.5** **0.5**
14	**Loose connective tissue** / **Dense connective tissue** / **Specialsed connective tissue** Areolar tissue and adipose tissue / Tendon,ligament / Blood, bone	**2**
15	**a)1-maintenance of resting membrane potential/ polarized membrane** **2-Initiation of action potential** **b)Na+ And K+** **c)**)the membrane of the resting neuron is poorly permeable to Na+ and has higher permeable for K+ ions. presence of an active Na+-K+ pump In the membrane of the resting neuron, which actively carries out more Na+ and has higher permeability for K+ions (3Na+ for 2K+).	**1** **1** **1**

16	 **a)** b)any four functions of protein c)i) RNA/Ribozyme ii)Co factor/Prosthetic group iii) Co enzyme iv)Apo enzyme	**1** **1** **1**
17	**Blood cell** / **TYPE OF CELL** / **Function** / **function** **WBC** / **Granulocyte** / **Neutrophil** / • **Phagocytosis** **Basophil** / • **secrete histamine, serotonin, heparin, etc., and are involved in inflammatory reaction** **Agranulocyte** / **Lymphocyte** / • **immune responses of the body** **Monocyte** / • **Phagocytosis**	**3**
18	**a)A-Open type , B-Closed type of circulation** **b)any one example** **c)Haemocoel**	**1** **1** **1**