Q. 1. Select and write the most appropriate answer from the given alternatives in each sub-question:

(i) The causative agent of AIDS is ......... .
   (a) Housefly (b) Mosquito (c) Taenia (d) HIV

(ii) Which blood group has no antibodies in the plasma?
   (a) A (b) B (c) AB (d) O

(iii) In Sonography, ultrasound waves are produced using crystals of ..........
   (a) Lead acetate (b) Lead chloride (c) Lead zirconate (d) Lead phosphate

(iv) Which is the protein sequence database?
   (a) GenBank (b) DDBJ (c) EMBL (d) SWISS-PROT

(v) The deoxygenated blood from body is received in ..........
   (a) Left auricle (b) Right auricle (c) Right ventricle (d) Left ventricle

(vi) Renal medulla contains ..........
   (a) Columns of Bertini (b) Columns of Malpighi (c) Columnae cornea (d) Chordae tendineae

(vii) In favourable condition, paramecium reproduces by ..........
   (a) Budding (b) Multiple fission (c) Binary fission (d) Fragmentation

(viii) The vas deferens starts from the ..........
   (a) Corpus epididymis (b) Cauda epididymis (c) Caput epididymis (d) Testis

Q. 2. (A) Mention the methods of Fish preservation.

   OR

   Describe the production of Vermicompost on small scale.

   OR

   Give the uses of Electrocardiograph (ECG).

   OR

   Give the applications of BioInformatics.

   (B) Sketch and label T. S. of Artery.

   (D) Explain the terms – Cetarrism and Myxoedema.

Q. 3 (A) Give the Food Value of Fishes.

   (B) Give the significance of Fertilization.

   OR

   Give the functions of Uterus.

   (C) What are the symptoms of AIDS?

   (D) Give the role of any two hormones secreted by Adenohypophysis.

   OR

   Write a note on Parafollicular cells.

Q. 4 : Attempt any TWO from the following:

   (A) Give the causative agent, symptoms and preventive measures of Typhoid.

   (B) Describe the Central Nervous System of Cockroach.

   (C) Describe the impact of population explosion on Health and Housing.

Q. 5: Define Reflex action. Describe the components of reflex arc and give significance of reflex action.

   OR

   (A) Explain the mechanism of working of Human Heart.

   (B) Describe the structure of Malpighian Corpuscle and add a note on Ultra-filtration.