

**BACHELOR OF SCIENCE in ZOOLOGY (HONS)**  
**SEMESTER – VI**

**Paper Code: ZOO-612P**

ZOO-612P: Animal Physiology, Histology, Developmental Biology and Biological Chemistry

25 marks

Animal Physiology 7 marks

Effects of isotonic, hypotonic and hypertonic solutions on erythrocytes Counting of RBC and WBC using Haemocytometer Estimation of haemoglobin percentage of a blood sample: Amphibia or mammal. Preparation of haemin crystals.

Study of permanent slides 6 marks

Study of permanent slides: Sections of pituitary, thyroid, adrenal, pancreas, testis and ovary. Study of developmental stages of frog (permanent slides, WM): Cleavage, gastrula and neurula. Study of developmental stages of chick (permanent slides, WM): 18,24,36,48 and 72 hours of incubation. Study of permanent slides of sections of blastula and gastrula of chick and neurula and external gills of frog. Sections of oesophagus, stomach, duodenum, ileum, pancreas, lung, kidney and skin of mammal and amphibian.

Biological Chemistry 4 marks

General test for identification of carbohydrate, lipid and protein.

Practical Record 3 marks

Viva-Voce 5 marks

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