



বিদ্যাসাগর বিশ্ববিদ্যালয়  
**VIDYASAGAR UNIVERSITY**

**Question Paper**

**B.Sc. Honours Examinations 2020**

(Under CBCS Pattern)

**Semester - III**

**Subject: ZOOLOGY**

**Paper: C6T & C6P**

**Full Marks : 60**

**Time : 3 Hours**

*Candidates are required to give their answer in their own words as far as practicable.*

*The figures in the margin indicate full marks.*

**THEORY (Marks : 40)**

Answer any *two* from the following questions :

2×20

1. Write about each and every step with reason for fixation and staining of any mammalian tissue.
2. How many hormones are released from human placenta ? Write their function.
3. (a) Write the mechanism of action potential generation in any nerve cell with reason with proper diagram.  
(b) Imagine that just before the repolarization phase of an action potential begins, the voltage gated K-channel becomes blocked and are unable to open, how might such an action potential look on a graph ?

10+10

4. Classify hormones with characteristic features and example on the basis of their chemical composition. Suppose, posterior pituitary is dissected out in human, whether hormones from posterior pituitary will be available in your body ? Justify your answer. 15+5

**PRACTICAL (Marks : 20)**

Answer any *one* from the following questions : 1×20

1. Write the characteristic features for identification of histological preparation of thyroid and ovary with drawing and labelling. 10+10
  2. Write about the process of mounting with your squamous epithelial cell. Draw and label the squamous epithelial cell. 10+10
  3. Describe the experimental process and reason of unconditioned reflex action with example and its importance. 10+10
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