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RNLKWC/B.Sc./CBCS/VIS/H/DSE3T/22

2022

**ZOOLOGY**

**[HONOURS]**

**(B.Sc. Sixth Semester End Examination-2022)**

**PAPER-DSE3T**

*Full Marks: 40*

*Time: 02 Hrs*

*The figures in the right hand margin indicate marks*

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

*Illustrate the answers wherever necessary*

**Group A**

1. Answer any FIVE questions of the following: 5x2= 10
- Mention the hormones and their function for parturition.
  - Write a name of a temporary endocrine gland with its function.
  - Write down function of vasopressin.
  - Enlist the function of Sestoli cells.
  - Write briefly on Grafian follicle.
  - What is local hormone? Give example.
  - Write down the name and location of any four hypothalamic nuclei
  - Write the principle and application of Sandwich ELISA.

(2)

**Group B**

2. Answer any FOUR questions of the following: **4x5 = 20**
- a) Write down significant role of hypothalamus. 5
  - b) How does pineal gland control our biological rhythm? 5
  - c) Provide a histological description at mammalian testis. 5
  - d) Describe the process of RIA and write its advantage over ELISA. 3+2
  - e) Briefly mention estrous cycle in rat. 5
  - f) Write the changes of uterus, ovary and hormone during menstrual cycle in human. 5

**Group C**

3. Answer any ONE questions of the following: **1x10 = 10**
- a) Suppose you are in a situation of emergency then which hormone will act? Write its mechanism of action in detail with description and justification. 1+1+8
  - b) Write down the disorder of pituitary hormones. 10
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