

2022

Zoology

[HONOURS]

(CBCS)

(B.Sc. Third Semester End Examination-2022)

PAPER-C6T

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

- 1. Answer any five questions of the following: 5x2=10**
- a) Classify hormones on the basis of their receptor with example & exception.
 - b) Write down the function of Inhibin & Androgen binding protein.
 - c) What do you mean by cryptorchidism?
 - d) Write down the causes of Grave's disease.
 - e) What is Haversian system?
 - f) What do you mean by Triad relationship in muscle?
 - g) What do you mean by "inactive and closed" states of potassium channels?
 - h) What do you mean by "lactational amenorrhea"?

(2)

2. Answer any four questions of the following: $4 \times 5 = 20$

a) Briefly describe the phases of muscle contraction with proper diagram.

b) Describe the situation (You can explain with the help of flow chart):

You are in a situation of 'fight or flight' which hormone will be secreted in your body & how mechanism of its action will occur?

c) Mention the histological details of mammalian pancreas highlighting the endocrine components. 5

d) Write short notes on

i) Stratified epithelial cells

ii) Hyaline Cartilage $2 \frac{1}{2} + 2 \frac{1}{2}$

e) What is pitocin & pitressin? Write down their functions in human body what is pituicytes? $2+2+1$

f) Briefly describe the propagation of action potential across the myelinated nerve fibres with proper diagram. 5

3. Answer any one question: $1 \times 10 = 10$

a) Briefly describe the different types of cell structure in pituitary gland with their endocrine functions.

Write a short note on A band and I-band in muscle fibre. $8+2$

(3)

b) Compare between IPSP and GPSP with respect to temporal and spatial summation? What do you mean by "Motor unit"? $4+4+2$
