

Duration : 2 & ½ hours

Maximum Marks : 75

- Note before:** 1] All questions are compulsory
2] Draw neat labelled diagrams wherever necessary
3] Figures to the right indicate full marks
4] Attempt the questions in their order given

Q. 1 Explain the following...

- a) Scales in fish. 07
- OR**
- a) Basic structure of epidermis. 07
- b) Mucous and serous types of glands. 08
- OR**
- b) Spur in male birds. 08

Q. 2 Describe the following...

- a) Mode of action of hormones. 07
- OR**
- a) Histology of pituitary gland. 07
- b) Properties of hormones. 08
- OR**
- b) Histology of ovary. 08

Q. 3 Explain the following...

- a) General skeleton of ribs. 07
- OR**
- a) Sexual dimorphism of human skeleton – Sternum. 07
- b) Structure of cervical vertebra. 08
- OR**
- b) Structure of pectoral girdle. 08

Q. 4 Describe the following...

a) Principles of experimental embryology.

07

OR

a) Oncogenes.

07

b) 72 hours chick embryo.

08

OR

b) Germplasm theory.

08

Q. 5 Write short notes on....

a) Epidermal derivative – teeth.

04

OR

a) Whale bone.

04

b) Disorders of thyroid gland.

04

OR

b) Classification of hormones

04

c) Physical properties of bone

04

OR

c) Hind limbs

04

d) 24 hours chick embryo

03

OR

d) Signaling pathways – Induction

03

=====