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Full Marks : 60

Time : 3 hours

The figures in the right-hand margin indicate marks

Answer **all** questions

1. Answer *all* the questions : 8×1

- (a) Tendon and ligaments are _____ types of tissue.
- (b) _____ is the largest corpuscles in human blood.
- (c) The functional unit of skeletal muscle is called _____.
- (d) Light sensitive cells of eye are present in _____.
- (e) Which membrane is thickened to form organ of Corti?
- (f) Which hormone produces calorogenic effect in human body?
- (g) Which ovarian hormone is proteinaceous?
- (h) Hormones required for maintenance of corpus luteum is _____.

2. Answer *any eight* questions within 2 to 3 sentences each : 8×1½

- (a) What is the function of sarcoplasmic reticulum?
- (b) What do you mean by neuromuscular junctions?
- (c) Why is bone resorption important?
- (d) What is function of placental hormones?
- (e) Write down the functions of pineal gland.
- (f) What is ossification?
- (g) Which cells are associated with normal vision?
- (h) What are the functions of cardiac muscle?
- (i) How is reflex arc produced?
- (j) What are the functions of steroidal hormones?

3. Answer *any eight* questions within 75 words each : 8×2

- (a) Write down the functions of antidiuretic hormones.

(3)

- (b) Differentiate between resting potential and action potential.
 - (c) Write a note on different types of synapse.
 - (d) Differentiate between insulin and glucagon.
 - (e) Describe the mechanism of reflex action.
 - (f) What is feedback control?
 - (g) What is ovarian cycle?
 - (h) Describe the ultrastructure of skeletal muscle.
 - (i) Differentiate between the bone and cartilage.
 - (j) Define connective tissues and its types.
4. Answer any four questions within 500 words each : 4×6
- (a) Justify "Pituitary gland is the master gland".
 - (b) Describe the physiology of hearing with suitable diagram.

(4)

- (c) Describe the molecular and chemical basis of muscle contraction.
- (d) Discuss the composition and functions of blood.
- (e) Describe the classification of hormones and the mechanism of hormone action.
- (f) Discuss the male reproductive system.
- (g) Discuss the mechanism of conduction of nerve impulse in various nerve fibres.
- (h) Describe the methods of contraception in male and female.

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