## (2)

### 3rd Semester Examination, 2020

Time: 3 hours

Full Marks: 60

Answer any one Group as per your syllabus

Answer from all the Sections as per direction

The figures in the right-hand margin indicate marks

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

GROUP - A

(MODEL SYLLABUS)

## ( PHYSIOLOGY-CONTROLLING AND COORDINATING SYSTEM )

SECTION - A

- 1. Answer the following questions using only *one* word:  $1 \times 8$ 
  - (a) Simple epithelium covering alveoli of lungs is \_\_\_\_\_ epithelium.

(b) Cells responsible for destruction of osteocytes in a bone is called \_\_\_\_\_.

(c) Fluid present inside anterior chamber of eye is called \_\_\_\_\_.

(d) Neuromuscular junction is the contact between muscle fibre and \_\_\_\_\_\_ neuron.

(e) Which cells provide nourishment to spermatozoa inside seminiferous tubule.

(f) During ovulation cell that sheds from the mammalian ovary is called Oocyte.

(g) Enzyme that forms cyclic AMP from ATP is called \_\_\_\_\_.

(h) Leaching of calcium from bones is due to a hormone called \_\_\_\_\_.

#### SECTION - B

2. Answer any *eight* of the following questions within *two* to *three* sentences each:  $1\frac{1}{2} \times 8$ 

SH ZOO-06

(Continued)

(Turn Over)

- (a) What is the role of Haversian canal in bone tissue?
- (b) Write two important characteristics of connective tissue.
- (c) What is saltatory conduction?
- (d) What are ear ossicles?
- (e) How FSH and oestrogen are related?
- (f) What is menarche?
- (g) Write two point difference between insulin and glucagon.
- (h) What is a neurohormone?
- (i) What is liquor folliculi?
- (j) Write two point difference between 'A'-band and 'I' band.

#### SECTION - C

3. Answer any *eight* of the following questions within 75 words:  $2 \times 8$ 

- (a) Differentiate between voluntary and involuntary muscle.
- (b) Write short notes on neuron.
- (c) Differentiate between sensory and motor nerve.
- (d) Write short notes on reflex action.
- (e) Write short notes on chorionic gonadotropin.
- (f) Differentiate between Graafian folliele and Corpus luteum.
- (g) Write short notes on adrenal cortex.
- (h) Briefly describe structure of thyroid gland.
- (i) Write short notes on organ of corti.
- (j) Briefly describe the histology of seminiferous tubules.

#### SECTION - D

4. Answer the following questions within 500 words with suitable diagrams wherever necessary:  $6 \times 4$ 

SH ZOO-06 (Turn Over)

SH ZOO-06 (Continued)

(a) Describe bone growth and resorption.

Or

Write a note on epithelial tissue.

(b) Describe molecular and chemical basis of muscle contraction.

Or

Write a note on synaptic transmission.

(c) Describe the role of Hypothalamus-Pituitary and gonadal axis in reproduction.

Or

Give an account of method of contraception in male and female.

(d) Describe the mechanism of hormone action with a suitable example.

Or

Describe Hypothalamus as the master of mastergland in endocrine system.

#### GROUP - B

(OLD SYLLABUS)

# ( CONTROLLING AND COORDINATING SYSTEM )

SECTION - A

1. Answer the following:

 $2 \times 6$ 

- (a) Tendon
- (b) Beta-Cells
- (c) Muscle twitch
- (d) Second messengers
- (e) Resting potential
- (f) Reflex arc.

SH ZOO-06

(Turn Over)

SH ZOO-06

(Continued)

### SECTION - B

Answer all questions:

 $12 \times 4$ 

Give an account of the structure and function of epithelial tissue.

Or

Write notes on:

 $6 \times 2$ 

- (i) Areolar tissue
- (ii) Cartilage.
- 3. What is a synapse? Discuss the mechanism of synaptic transmission.

Or

Write notes on:

 $6 \times 2$ 

(Turn Over)

- (i) Structure of neuron
- (ii) Neuromuscular junction.
- Give an account of ultrastructure of skeletal muscles.

Or

Write notes on:

 $6 \times 2$ 

- (i) Cardiac muscle
- (ii) Muscle tetanus.
- 5. Discuss the structure and function of thyroid gland.

Or

Write notes on:

 $6 \times 2$ 

- (i) Hypothalamus
- (ii) Pineal gland.

\_\_\_\_\_

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