Total number of printed pages-4 and off the

3 (Sem-3/CBCS) ZOO HC 2

2023 garage

ZOOLOGY

(Honours Core)

Paper: ZOO-HC-3026

(Animal Physiology: Controlling and Coordinating Systems)

Full Marks: 60

Time: Three hours

The figures in the margin indicate full marks for the questions.

- 1. Answer the following/Choose the correct answer: $1 \times 7 = 7$
 - (a) Transitional epithelium is found on

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- (i) Stomach
- (ii) Lungs
- (iii) Liver
- (iv) Urinary bladder anold (vi)

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- (b) The synaptic vesicles at neuromuscular junction discharge
 - (i) Adrenaline
 - (ii) Epinephrine
 - (iii) Acetylcholine
 - (iv) None of the above
- (c) A small band of dense, white and fibrous elastic tissue is grouped as
 - (i) Ligament
 - (ii) Muscle junction
 - (iii) Muscle filament
 - (iv) Muscle cartilage
- (d) The longest bone in the body is
 - (i) Femur
 - (ii) Radius
 - (iii) Hip Bone
 - (iv) Ilium
- (e) Which of the following tissue envelopes the bone?
 - (i) Periosteum
 - (ii) Pericardium
 - (iii) Myocardium
 - (iv) None of the above

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- (f) Spongy bones do not have a haversian system. (True or False)
- (g) Ovulation generally takes place at the _____ of a menstrual cycle.
 - (i) Day 12
 - (ii) Day 14
 - (iii) Day 16
 - (iv) Day 28
- 2. Answer the following questions: 2×4=8
 - (a) Mention the posterior pituitary hormones with their functions.
 - (b) What is tetanus?
 - (c) Describe the structure of neuromuscular junction.
 - (d) What is bone arification?
- 3. Answer the following questions: (any three) 5×3=15
 - (a) What is bone? Describe different types of bones with example.
 - (b) Describe briefly the characteristics of muscle twitch.
 - (c) Describe the structure of thyroid gland with labelled diagram.

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- What is Reflex action? Describe with (d) example.
- Classify epithelial tissue with example. (e)
- Describe the structure of connective 4. (a) tissue with neat and labelled diagram. 7+3=10on not till

What is nerve impulse? Describe the (b) process of nerve impulse conduction through unmyclinated nerve fibre.

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(a) What is puberty? Describe the role of 5. hormones involved in puberty. es michanis mil bacus.

continues with their factoring

Vest is bone and sites V (b) Describe the process of signal transduction for non-steroidal hormones. 10

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6. (a) Describe the physiology of vision with neat and labelled diagram. 7+3=10

(b) Describe brieff to a characteristics of

(b) Describe the molecular and chemical basis of muscle contraction. 5+5=10

muscle twitch.