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(FYUGP)

(3rd Semester)

ZOOLOGY

(MAJOR)

Paper Code : ZOO/C6

**(Animal Physiology—I : Controlling and
Coordination Systems)**

Full Marks : 75

Pass Marks : 40%

Time : 3 hours

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

1. Explain the structure, classification and function of connective tissue. 15

Or

Write notes on the following : $7\frac{1}{2}+7\frac{1}{2}=15$

- (a) Types of cartilage
(b) Bone growth and resorption

(2)

2. With proper illustrations, explain the origin of action potential and its propagation across an unmyelinated nerve fibre.

15

Or

Write an account on reflex action and its types. Add a note on reflex arc.

10+5=15

3. Give an account on the histology of different types of muscles.

15

Or

Write notes on the following :

$7\frac{1}{2}+7\frac{1}{2}=15$

(a) Muscle twitch

(b) Tetanus

4. With a well-labeled diagram, describe the structure of ovary.

15

Or

Explain the endocrine function of young oocyte and mature Graafian follicle.

15

(3)

5. What are endocrine glands? Explain the classification of hormones. Add a note on the action of hormones. 1+10+4=15

Or

Describe the structure and function of hypothalamus with a well-labeled diagram. 15

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