



Progressive Education Society's
Modern College of Arts, Science & Commerce Ganeshkhind, Pune – 16
(Autonomous)
End Semester Examination: MAR / APR 2025
Faculty: Science and Technology

Program: BScGen03

Semester: VI

SET: A

Program (Specific): Zoology

Course Type: DSEC

Class: T.Y. B.Sc.

Max.Marks: 35

Name of the Course: Animal Physiology

Course Code: 24-ZO-362

Time: 2Hr

Paper: II

Instructions to the candidate:

- 1) *There are 5 sections in the question paper. Write each section on separate page.*
- 2) *All Sections are compulsory.*
- 3) *Figures to the right indicate full marks.*
- 4) *Draw a well labelled diagram wherever necessary.*

Q1) Define or Explain

5

- a) Define Nutrition.
- b) Define respiration.
- c) Define balanced diet.
- d) Define cardiac cycle.
- e) Define hormones.

Q2) Very short answer questions (Attempt any 4/6)

4

- a) Enlist two types of digestion.
- b) Define plasma of blood.
- c) Explain haemerythrin as respiratory pigment,
- d) Explain transport of oxygen from alveolus to tissue cell in respiration.
- e) What is hypothalamus?
- f) Enlist different types of agranulocytes from blood.



Q3) Short answer questions (Attempt any 4/6)

8

- a) What is the function of interstitial cells?
- b) Enlist hormones secreted by thyroid gland.
- c) What is bleeding time?
- d) Explain water soluble vitamins.
- e) Describe tidal volume.
- f) Enlist two functions of estrogen hormone.

Q4) Short answer questions (Attempt any 4/6)

8

- a) Write a note on Spermatogenesis.
- b) Why pituitary gland is called Master gland?
- c) Enlist the names of valves of heart.
- d) Discuss any two functions of saliva.
- e) Describe oxygen dissociation curve of haemoglobin.
- f) Explain functions of auricles and ventricles.

Q5) Long answer type Questions

10

Attempt any two of the following (2/4)

- a) Describe structure and function of nephron.
- b) Describe Electrocardiogram (ECG).
- c) Enlist various functions of blood.
- d) Write a note on digestion and absorption of protein and carbohydrates.