

AS-1458

B.Sc. (Part-III) Semester—V Examination
ZOOLOGY
(Animal Physiology and Economic Zoology)

Time : Three Hours]

[Maximum Marks : 80

N.B. :— (1) **ALL** questions are compulsory.

(2) Question No. 1 carries 8 marks and remaining **SIX** questions carry 12 marks each.

(3) Illustrate your answers with suitable diagram wherever necessary.

1. (a) Fill in the blanks :

(i) Fish liver oil is rich source of Vitamin A and _____.

(ii) Pyrilla is the pest of _____.

(iii) Menstrual cycle continues from puberty to _____.

(iv) Prothrombin is produced in _____.

2

(b) Choose correct alternative from the following :

(v) Lining of the uterus is _____.

(a) Pericardium

(b) Endocardium

(c) Endodermis

(d) Endometrium

(vi) Cross bridges are formed by :

(a) Tubulin filament

(b) Myosin filament

(c) Neural filament

(d) Actin filament

(vii) The gland having both exocrine and endocrine function is _____.

- (a) Thyroid
- (b) Liver
- (c) Pancreas
- (d) Pituitary

(viii) Birds are _____.

- (a) Uricotelic
- (b) Ureotelic
- (c) Ammonotelic
- (d) Aminotelic

2

(c) Answer in **ONE** sentence :

(ix) What is aquaculture ?

(x) Which predator insect is known as 'aphid lion' ?

(xi) What is puberty ?

(xii) What is long form of ACTH ?

4

2. Explain the following :

- (a) Rh factor
- (b) Chlorocraorin
- (c) Atrial cycle

OR

- (d) Blood Plasma.
- (e) Hemerythrin
- (f) Internal structure of human heart (diagram only).

12

3. Describe E.M. structure of striated muscle fibre.

OR

Describe the mechanism of muscle contraction.

12

4. Describe the following :

- (g) Insulin
- (h) Resting potential
- (i) E.M. structure of Neuron (diagram only)

OR

- (j) Dwarfism
- (k) Action potential
- (l) E.M. structure of synapse (diagram only).

12

5. Explain the following :

- (m) Uricotelism
- (n) Testosterone
- (o) Proestrous phase of estrous cycle.

OR

- (p) Ureotelism
- (q) Estrous phase
- (r) Luteal phase of menstrual cycle.

12

6. Write an account of seri culture.

OR

Give an account on beneficial insects (any six).

12

7. Attempt the following :

- (s) Fish liver oil
- (t) Nursery pond
- (u) Cage culture

OR

- (v) Fish leather
- (w) Rearing pond
- (x) Pen culture.

12

