

Roll No. :

Total No. of Questions : 11]

[Total No. of Printed Pages : 3

BPG–1086

M.Sc. (Previous) Examination, 2021

ZOOLOGY

Paper – II

(Biological Chemistry, Immunology & Physiology)

Time : 1½ Hours]

[Maximum Marks : 75

Section–A

(Marks : 2 × 10 = 20)

Note :– Answer all *ten* questions (Answer limit **50** words). Each question carries **2** marks.

Section–B

(Marks : 5 × 5 = 25)

Note :– Answer all *five* questions. Each question has internal choice (Answer limit **200** words). Each question carries **5** marks.

Section–C

(Marks : 10 × 3 = 30)

Note :– Answer any *three* questions out of five (Answer limit **500** words). Each question carries **10** marks.

Section–A

2 each

1. Attempt all *ten* questions. Answer should not exceed **50** words in each question :

- (i) Write the example of fat soluble vitamins.
- (ii) Define carbohydrate and its types.

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- (iii) What are Antibodies.
- (iv) Define Humoral Immunity.
- (v) Write the names of respiratory disorders.
- (vi) Write the full name of ECG.
- (vii) Define Sarcomere.
- (viii) Define Reflex Action.
- (ix) Write the function of thyroid hormone.
- (x) What is Parturition ?

Section–B

5 each

Note :- Answer all *five* questions. Each question has internal choice (Answer limit **200** words).

2. Classify proteins with example.

Or

Describe importance of fats.

3. Describe Cell Mediated Immunity.

Or

Describe eukaryotic parasite with example.

4. Describe transportation of gases in mammals.

Or

Give a detailed account of cardiac cycle in man.

5. Describe mechanism and regulation of urine formation.

Or

Describe biophysical, biochemistry and molecular physiology of genesis.

6. Describe structure and function of adrenal gland.

Or

Describe endocrine control of ovarian and uterine cycle.

Section–C

10 each

Note :- Answer any *three* questions out of five (Answer limit **500** words).

7. Describe nomenclature and mechanism of enzyme action.

8. Describe antigen and antibody reaction.

9. Describe mechanism of secretion and action of all types of digestive enzyme met within the mammalian digestive pathway.

10. Describe morphology and functional architecture of muscle tissue.

11. Describe physiological aspects of implantation and lactation.