[Total No. of (i) Printed Pages 3 (ii) Questions 9]
Sub Code : 0553 (1048) Exam Code : 0006
Exam : B.A./B.Sc. (General), 6th Semester

Subject : Zoology

Paper : Paper-II : Applied Zoology-I opt (i) Medical Zoology and Medical Laboratory Technology-II (ZOO-602A)

Time : 3 Hours

Maximum Marks : 36

Note: Question No. 1 is compulsory. Attempt one question each from Units – I, II, III and IV Draw well labelled diagrams wherever necessary.

1. Briefly explain the following :

8×1=8

- (a) Secondary lymphoid organs
- (b) Polymorphonuclear leucocytes
- (c) Langerhans cells
- (d) Idiotypes
- (e) Resolving Power
- (f) Venipuncture
- (g) AFB Stain
- (h) Nutrient Broth

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UNIT - I

- (a) Give an account of Physical and Chemical Barriers to infection.
 3¹/₂
 - (b) Describe the antibody Mediated Immune System. 3¹/₂
- (a) Discuss the Structure of antigen Molecule. Give its types and functions. 3¹/₂
 - (b) How the immunogenicity of an antigen Molecule can be increased. Suggest Suitable Methods. 3½

UNIT - II

- **4.** Enumerate the Various Serodiagonstic assays, along with their Merits and limitations.
- 5. Write short notes on :

(a)	Classes of Antibody Molecule	31/2
(b)	Third generation vaccines	31/2

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UNIT - III

- 6. (a) What are the essential components of an electron Microscope ? 3¹/₂
 - (b) Describe the technique used for separation of Mitochondria. 3¹/₂

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 What are anticoagulants ? Briefly explain various anticoagulants giving advantages as well as disadvantages.

UNIT - IV

- 8. (a) Give principle and working of an autoclave. $3\frac{3}{2}$
 - (b) What are culture Media ? Describe different Kinds of culture media. 3¹/₂
- **9.** Describe procedure for the estimation of Blood glucose and Serum Proteins. 7