

(i) Printed Pages: 2

Roll No.

(ii) Questions : 9

Sub. Code :

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Exam. Code :

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B.Sc. (General) 6th Semester

(2040)

ZOOLOGY

Paper—II : Applied Zoology—II Opt. (ii) Economic
Entomology and Pest Management-II (ZOO-602 B)

~~Time Allowed : Three Hours~~

[Maximum Marks : 36]

Note: Attempt 50% of Total Questions of Question Paper. Time: 2 Hours
All will carry equal marks. Fraction will be lower digit.

~~Compulsory one.~~

1. Write short notes on :

1×8=8

- (a) Epitopes
- (b) Lymph node
- (c) Macrophages
- (d) DNA Vaccine
- (e) AFB stain
- (f) Centrifugation
- (g) Anticoagulants
- (h) Methods of protein estimation.

UNIT—I

2. (a) What are Antigens ? Describe the chemical properties of antigens. 4
- (b) Differentiate between cell mediated and humoral immunity. 3

3. (a) What are primary lymphoid organs ? Describe their structure and functions. 5
- (b) Describe the structure and functions of granulocytes. 2

UNIT—II

4. Describe the following : $3.5 \times 2 = 7$
 - (a) Structure and functions of IgG.
 - (b) Principle of IFA and ELISA.
5. Describe the different types of serodiagnostic assays used for demonstration of antigen-antibody interactions. 7

UNIT—III

6. Write notes on the applications of the following :
 - (a) Spectrophotometry 3
 - (b) Electron microscopy. 4
7. (a) Describe the different anticoagulants along with their merits and demerits.
- (b) Explain the hazards involved and precautions that should be taken during sample collection for laboratory investigations. $3.5 \times 2 = 7$

UNIT—IV

8. (a) Describe the different sterilization techniques used in a bacteriology laboratory. 4
- (b) Describe the different media used for culture of bacteria. 3
9. Give a detailed account of histochemistry techniques used in a pathology laboratory. 7