

(i) Printed Pages : 3]

Roll No.

(ii) Questions : 9]

Sub. Code :

0	5	5	4
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Exam. Code :

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**B.A./B.Sc. (General) 6th Semester
Examination**

1047

ZOOLOGY

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

Time : 3 Hours]

[Max. 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 :

- (i) Complement Fixation
- (ii) Polymorphonuclear cells
- (iii) Epitope
- (iv) Immunogenicity
- (v) Macroglobulin

N-127

(1)

Turn Over

- (vi) Spectrophotometry
- (vii) Romanowsky's Stain
- (viii) Fixatives

8×1=8

Unit-I

2. Write briefly about :

(a) Respiratory Burst

(b) Opsonization

3.5+3.5

3. (a) Differentiate between-B and T-lymphocytes.

(b) Enumerate the factors which can affect the immunogenicity of an antigen molecule.

3.5+3.5

Unit-II

4. (a) Explain clonal selection theory of antibody formation.

(b) Describe the various antigen and antibody interactions.

3+4

5. (a) What are Vaccines ? Give their types with examples.

(b) Give the Principle of Vaccination.

4+3

Unit-III

6. (a) Compare and contrast between compound
Microscope and electron Microscope.
- (b) Give an account of Colorimetry. 4+3
7. Write an account about Romanowsky's Stain and its
commonly used modifications. 7

Unit-IV

8. Give qualitative tests for estimation of Blood Glucose
and Blood Urea. 7
9. Explain the following :
- (a) AFB Staining
- (b) Different types of Culture Media. 3.5+3.5