

B.Sc. III (with Credits)-Regular-Semester 2012 Sem VI
**B.Sc. 4540 - Applied Zoology -II : Paper- II (Biotechniques, Microtechniques,
Immunology, Bioinformatics and Biostatics)**

P. Pages : 2

Time : Three Hours



GUG/W/16/5657

Max. Marks : 50

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- Notes :
1. All questions are compulsory.
 2. All questions carry equal marks.
 3. Draw well labelled diagram wherever necessary.

1. Describe the method of sterilization using heat. **10**

OR

- a) Block making.
- b) Histochemical demonstration of protein & lipid.

2. Write an account on Innate immunity. **10**

OR

- a) Application of bioinformatics.
- b) Measures of central tendency.

3. Attempt the following. **10**

- a) Ultracentrifugation.
- b) Dehydration.
- c) Bone marrow.
- d) Pharmacoinformatics.

OR

- e) Ion exchange chromatography.
- f) Difficulties in section cutting.
- g) Peyer's patches.
- h) Probability.

4. Attempt the following. **10**

- a) Calorimeter.

- b) Labelling the slides.
- c) Activation of T-cell.
- d) Nucleotide sequence data base.

OR

- e) Application of spectrophotometer.
- f) Histochemical demonstration of carbohydrates.
- g) Antigen.
- h) Standard Error.

5. Write four or five lines of the following **any ten**.

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|---------------|---------------------|
| i) Agarose. | ii) Incineration. |
| iii) SDS. | iv) Dyes. |
| v) Paraffin. | vi) Clearing agent. |
| vii) Tonsils. | viii) Neutrophils. |
| ix) Epitope. | x) Bio weapons. |
| xi) PROSITE. | xii) Histograms. |
