

Reg. No. : .....

**D 2592**

**Q.P. Code : [D 09 PZO 04]**

(For the candidates admitted from 2009 onwards)

M.Sc. DEGREE EXAMINATION, MAY 2012.

First Year

Zoology

BIOCHEMISTRY AND BIOPHYSICS

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

All questions carry equal marks.

(5 × 20 = 100)

1. Explain in detail about the classification of proteins based on their chemical structure and properties.
2. Discuss different types of polysaccharides with suitable examples.
3. Write in detail about the classification of lipids.
4. Classify enzymes with suitable examples and derive Michaelis-Menten constant.

5. Write in detail about the mechanism of replication in prokaryotes.

6. Explain in detail about the principle, procedure and applications of column Chromatography.

7. Discuss the principle, instrumentation and applications of UV spectrometry.

8. Explain in detail about the principle, Instrumentation and applications of SDS-PAGE.