**Printing Page(s): 1** 

## Roll No.

Paper Code :DSC-208

## B.Sc. (ZBC)-11

## 2nd Year Examination, Academic Batch 2016-17 Zoology-IV (Cytogenetics and Molecular Biology)

Time: 3 Hours ] [Max. Marks: 100

Note. Attempt any five questions. Each questions carry equal marks.

- **Q.1** What is Endoplasmic Reticulum? Describe the functions and types of endoplasmic Reticulum.
- **Q.2** Describe the structure of plasma membrane with its chemical composition.
- **Q.3** Write an account of the structure and functions of Chromosomes with diagram.
- **Q.4** What is Lysosomes? Explain their structure and functions.
- **Q.**5. What is replication? Why it is called as semi conservative in case of E. coli. Describe Meselson and Stahl 's experiment showing semi conservative replication of DNA in E. coli
- **Q.**6.Briefly describe the following
- (i) Transcription in prokaryotes
- (ii) Functions of Golgi complex
- **Q.**7.Describe different stages of cell cycle.
- **Q.**8. Write short notes on
- (i) Protoplasm theory
- (ii) Active transport
- (iii) DNA structure
- (iv) Laws of inheritance