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**Paper Code : DSC-108**  
**Roll No.**

**B.Sc. (ZBC)-6**  
**1<sup>st</sup> Year Examination, Academic Batch 2017-18**  
**Cell Biology and Genetics**

*Time : 3 Hours ]*

*[ Max. Marks : 100*

*Note. Attempt any **Five** questions. All questions carry equal marks.*

**Q.1** What is plasma membrane? Explain the fluid mosaic model of plasma membrane.

**Q.2** Explain the chemical composition and functions of cell wall.

**Q.3** Explain the structure and functions of Nucleus.

**Q.4** Define Golgi Complex? Explain the structure functions and chemical composition of golgi complex.

**Q. 5.** Describe the mitosis cell cycle. How many cell will produce in the end of mitosis justified your answer with the suitable diagram.

**Q.6.** Write short notes on the following (**Any Four**):

(i) Crossing Over (ii) Genetic code (iii) Mitosis & Meiosis  
(iv) Jumping gene (v) Plasmid (vi) Shape of Chromosomes

**Q.7.** Describe the Mendel's law of inheritance.

**Q.8.** Describe the operon mode of protein synthesis?