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Roll No.	Total No. of Pages : 02
Total No. of Questions : 09	
M.Sc.(BT) (2011 & Onwards)	(Sem.–1)
CELL BIOLOGY	
Subject Code : MSBT-	105
Paper ID:[F0253]	
Time : 3 Hrs	Max Marks 60

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# **INSTRUCTION TO CANDIDATES :**

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks 1. each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students 2. has to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.

## **SECTION-A**

#### 1. **Answer briefly :**

- a. Explain Peptidoglycan cell wall.
- b. Write difference between phase contrast and dark field electron microscope.
- c. What do you mean by cell cycle
- d. Write functions of Mitochondria.
- e. Define MAPK.
- f. Explain Repression
- g. Define Gametogenesis.
- h. Define active and passive transport.
- i. What is receptor mediated endocytosis?
- j. Write functions of chloroplast.



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## **SECTION-B**

- 2. Give a brief account on structure of plasma membrane.
- 3. Write a detailed note on  $K^+$  channel.
- 4. Discuss in detail applications of electron microscope.
- 5. Give detailed account on JAK-STAT signalling pathways.
- 6. Give an elaborative account on somatic mitosis.

### **SECTION-C**

- 7. Give a detailed account on history and development of cell theory.
- 8. Describe technique and mechanism of vesicular traffic.
- 9. Discuss in detail molecular mechanism of transcription.