VCD-15/10/15 BIOCHEMISTRY-II F.Y.B.Sc. SEMIEXAM MARKS75 21/2HRS (50)

- · All questions are compulsory.
- · Figures to Right indicate marks.
- Draw diagram wherever necessary.

Q. I.A. Answer the following questions (any 4)

[8M]

- 1. Give the different types of RNA present in the eukaryotic cell.
- Define coacervates.
- 3. What is a yeast cell?
- 4. Name the organic compounds formed after Miller's experiment.
- 5. How was primitive earth's atmosphere?
- 6. What is panspermia?
- 7. What do you mean by the term anaerobe?
- 8. Define prokaryote.

O. I.B. Answer the following questions in brief (any 2)

[6M]

- 1. Give a brief account on heterotroph hypothesis.
- 2. What is spontaneous generation hypothesis/theory?
- 3. Differentiate between heterotroph and autotroph.
- 4. Give the evidences supporting RNA world hypothesis.

Q. I.C. Answer the following questions in detail (any 1)

16M1

- 1. How was spontaneous generation theory disproved?
- 2. Differentiate between prokaryotic cell and eukaryotic cell.

Q.II.A. Answer the following (any 4)

18M

or the state of th

OF MER TO CONTRACT OF THE MAN MANY

- 1. What is peptidoglycan composed of?
- 2. Define active transport.
- 3. What are microfilaments?
- 4. What is osmosis?
- 5. Give protein present in microtubules and microfilaments.
- 6. What do you mean by uniport?
- 7. Give the basic functions of plasma membrane.
- 8. How are lipids transported through the cell membrane?

(contd.