Exam.Code:0002 Sub. Code: 0184

Max. Marks: 33

(6)

## 2071

## B.A./B.Sc. (General) Second Semester Industrial Microbiology

IMB-201: Fundamentals of Microbiology - II

Time allowed: 3 Hours

IX.

examples.

NOTE: Attempt five questions in all, including Question No. I which is compulsory and selecting one question from each Unit. x-x-xI. Attempt the following:a) Describe the features of mycoplasma. (3) b) What are the various types of flagella? (2) c) Explain oxidative level phosphorylation with example. (2) d) What do you understand by cell bioreactor? (2) UNIT - I II. Describe the processes involved in downstream processing. (6) III. Explain the working of immobilized cell bioreactor. (6)<u>UNIT - II</u> IV. Classify the microorganisms on the basis of their nutrition types. (6) ٧. Explain the various features, examples and application of thermophiles. (6)<u>UNIT - III</u> VI. Discuss advantages and disadvantages of various methods of culture preservation. (6) VII. Explain the principle and process of:a) Lyophilization b) Mineral oil overlaying (3+3)**UNIT - IV** VIII. Explain the gluconeogenesis in detail. (6)

Explain the process of nitrogen fixation in the symbiotic system with the help of