

DEPARTMENT OF PHARMACEUTICAL SCIENCES & TECHNOLOGY

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI

(Internal Assessment I)

CLASS: BPHARM
BRANCH: PHARMACY

SEMESTER: III
SESSION: MO 2024

SUBJECT BP303T Pharmaceutical Microbiology

TIME: 2.00 Hour

FULL MARK: 30

PART I

- A. Objective type questions (Answer all questions) (5 x02=10 marks) CO**
1. Differentiate between prokaryotic and eukaryotic cells 3
 2. Enlist different types of plasmids and their examples 1,2
 3. Illustrate different types of bacteria based on its shape and cite examples of each class 1, 2
 4. Classify the bacterial media with examples 1,2
 5. At which phase of growth the microorganisms are most susceptible against action of sterilizing agents? Cite reason. 4, 5

PART II

- B. Long Answers (Answer any one out of two) (01x10=10 marks) CO**
1. Discuss the structure and function of the following with appropriate illustrations and examples: 3, 4
a) Flagella; b) Glycocalyx; c) bacterial cell wall d) plasma membrane
 2. Elaborate the role of physical growth factors in bacterial survival 4, 5

PART III

- C. Short Answers (Answer any two out of three) (02x05=10 marks) CO**
1. Illustrate the characteristic features of bacterial growth curve. 3, 4
 2. Differentiate between gram positive and gram negative cell wall 2, 3
 3. Classify major nutritional types of microorganisms with examples. Indicate their source of energy. 2, 3

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