

QUESTION BANK
ESSAY QUESTIONS
II SEMESTER
COURSE 3: - INTRODUCTION TO MICROBIOLOGY

Unit - 1: History of Microbiology

- | | |
|--|-----------------|
| 1. a) Write notes on Charak Samhita | Split essay 4 M |
| b) Contribution of Edward Jenner | Split essay 4 M |
| 2. a) Contribution of Ignaz Philipp Semmelweis | Split essay 4 M |
| b) Major contribution of Louis Pasteur | Split essay 4 M |
| 3. a) Contribution of Robert Koch | Split essay 4 M |
| b) Contribution of Joseph Lister | Split essay 4 M |

Unit - 2: Place of Microorganisms in the living world

- | | |
|---|----------|
| 4. Explain Whittaker's five kingdom classification | Essay 8M |
| 5. Discuss the basic and applied branches of Microbiology | Essay 8M |
| 6. Distinguishing features of eukaryotic and prokaryotic cell | Essay 8M |

Unit - 3: Prokaryotic microorganisms and Viruses

- | | |
|--|----------|
| 7. Explain General characteristics of Bacteria | Essay 8M |
| 8. Distinguishing characters of Archaeobacteria & Eubacteria | Essay 8M |
| 9. General characteristics of viruses | Essay 8M |

Unit - 4: Eukaryotic microorganisms

- | | |
|------------------------------|----------|
| 10. Write a note on Fungi | Essay 8M |
| 11. Write a note Algae | Essay 8M |
| 12. Write a note on Protozoa | Essay 8M |

Unit - 5: Growing Microbes in Lab: Five I's

- | | |
|--|-----------------|
| 13.a) Describe the inoculation methods. | Split essay 4 M |
| b) Nutrient broth & Nutrient agar. | Split essay 4 M |
| 14.a) Colony characteristics of bacteria. | Split essay 4 M |
| b) Simple staining. | Split essay 4 M |
| 15.a) Explain various pure culture techniques. | Split essay 4 M |
| b) Wet mount. | Split essay 4 M |