

[LF 356]

OCTOBER 2014

Sub. Code: 2917

**M.PHARM. DEGREE EXAMINATION  
FIRST YEAR  
BRANCH VI – PHARMACEUTICAL BIO- TECHNOLOGY  
PAPER II – PHARMACEUTICAL ASPECTS OF MICROBIAL AND  
CELLULAR BIOLOGY**

*Q.P. Code : 262917*

**Time : Three hours**

**Maximum : 100 marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Write detail about asexual reproduction of bacteria and explain growth and cultivation of bacteria.
2. Classify immunity and describe active immunity and passive immunity with example

**II. Write notes on:**

**(10 x 6 = 60)**

1. Discuss about factors affecting disinfecting agent.
2. Define dye and explain different types of dyes with suitable example.
3. Classify fungi, with a note on economic importance of fungi.
4. Explain phagocytosis with its mechanism.
5. Define medium. What is the role of yeast extract, malt extract and agar in the medium?
6. Mechanisms of generating ATP.
7. Etiology and pathology of common microbial diseases.
8. Importance of nutrients for micro organism.
9. Explain the process of B – cell maturation, activation and differentiation.
10. Explain isolation of bacteria by pour plate technique and spread plate technique.

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