

AV – 2471

Second Year D. Pharm. Examination

PHARMACEUTICAL MICROBIOLOGY

Paper - 2.2
(USC – 35116)

P. Pages : 2

Time : Three Hours]

[Max. Marks : 70

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- Note :** (1) Question no. **One** is compulsory.
(2) Illustrate your answer wherever necessary with the help of neat sketches.
(3) Answer any **Five** questions from remaining questions

1. Write any **Three** of the following :—
 - (a) Simple staining.
 - (b) Fungi cultivation.
 - (c) Antigen.
 - (d) Whitkar's Five Kingdom classification. 15
2. Define Immunity. Explain different types of immunity with examples. 11
3. Define Sterilization and write about steam sterilization including their merits and demerits. 11
4. Explain in detail principles and methods of different microbiological assay. 11
5. (a) Write about evaluation of bactericidal. 6
(b) Discuss about structure of viruses. 5

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6. Distinguish between :
- (a) Cellular and Humoral Immunity. 6
 - (b) Bacterial exotoxin and endotoxin. 5
7. Discuss in detail about growth and cultivation of bacteria. Describe different types of media used in culturing microorganisms. 11
8. (a) Write about Tuberculosis. 6
- (b) Principle and procedure of ELISA. 5
9. Explain in detail about lytic cycle of bacteriophage. Add a note on cultivation of viruses. 11

