QP CODE: 202326	Reg. No:
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Second Year Pharm D Degree Regular/Supplementary Examinations January 2021

Pharmaceutical Microbiology

Time: 3 Hours Total Marks: 70

- Answer all questions to the point neatly and legibly Do not leave any blank pages between answers
 Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together Leave sufficient space between answers
- Draw table/diagrams/flow charts wherever necessary

Essays (3x10=30)

- 1. Define immunity. Write in detail about general principles of natural immunity.
- 2. Explain AIDS. Mention the causative organism, mode of transmission, signs and symptoms, diagnosis and treatment of HIV.
- 3. Define prokaryotes. Draw neat labelled diagram of bacteria and explain various parts of bacteria

Short notes (8x5=40)

- 4. Explain biochemical test of bacteria.
- 5. Differentiate bacterial exotoxins and endotoxins
- 6. Reproduction of fungi.
- 7. Define sterilization. Explain the sterility testing of pharmaceutical products.
- 8. Explain PCR.
- 9. How the vaccines and sera are standardized. Explain.
- 10. Explain gaseous method of sterilization with examples.
- 11. Differentiate Gram's staining and acid fast staining.
