

**QP CODE: 202326**

**Reg.No: .....**

**Second Year Pharm D Degree Examinations June 2018**

**Pharmaceutical Microbiology**

**Time: 3 Hours**

**Total Marks: 70**

- Answer all Questions.
- Draw Diagrams wherever necessary.

**Essays**

**(3x10=30)**

1. Mention the five-kingdom and three domain system.
2. Explain the principle involved, advantages and disadvantages of gaseous sterilization.
3. Explain different methods used in isolation and identification of bacteria.

**Short notes**

**(8x5=40)**

4. Briefly describe the method of maintenance of organism in lab.
5. Explain various counting techniques.
6. Dry heat sterilization.
7. Discuss about the mechanism of action of fungicidal agents
8. Differentiate between active and passive immunity.
9. Explain the structure of immunoglobulin.
10. Explain gram staining technique.
11. Hepatitis.

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