

(Following Paper ID and Roll No. to be filled in your Answer Books)

**PAPER ID :**

**Roll No.**

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**B. PHARM.**

**Theory Examination (Semester-IV) 2015-16**

**PHARMACEUTICAL MICROBIOLOGY**

**Time : 3 Hours**

**Max. Marks : 100**

**SECTION – A**

**1. Attempt all the questions :**

**(2 × 10 = 20)**

- Define Culture media for microbial growth
- Define Infection
- Define Bacterial staining
- What is Sterilization of solids?
- What is Gamma radiation for sterilization?
- What is Cultivation of virus?
- What is Isolation of bacteria?
- Define Hospital
- Define Microbes.
- What do you mean by disinfectant?

**SECTION – B**

**2. Attempt any five of the following :**

**(5 × 10 = 50)**

- Name and describe two gram negative microorganism.
- Describe the dynamics of disinfection.
- What are the uses of electron microscopy in microbiology ?
- How are microbes classified ?
- What is the scope of microbiology in health care ?
- Discuss about antibiotics in detail.
- Explain personal microbiology.

**SECTION – C**

**Attempt any two questions :**

**(15 × 2 = 30)**

**3. Attempt the following**

- Describe an aseptic room.
- How can contamination be restricted and controlled in manufacturing of sterile products ?

**4. Attempt the following**

- Compare the methods of dry and moist heat sterilization.
- Write an account on aerobic and anaerobic sterilization.

**5. Attempt the following**

- How is sterilization of equipment validated ?
- Write an account of classification of microbes and their taxonomy.

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