

[LB 0212]

AUGUST 2012

Sub. Code: 1111

**B.Sc. OPERATION THEATRE AND ANAESTHESIA TECHNOLOGY
SECOND YEAR**

PAPER I – APPLIED PHARMACOLOGY AND MICROBIOLOGY

Q.P. Code : 801111

Time : Three hours

Maximum : 100 marks

(180 Mins) Answer ALL questions in the same order.

I. Elaborate on:

**Pages Time Marks
(Max.)(Max.)(Max.)**

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|--|---|----|----|
| 1. Classify anti-arrhythmic drugs with suitable examples. Explain the mechanism of action and therapeutic use of any one class of anti-arrhythmic drug. | 7 | 20 | 10 |
| 2. Explain the mechanism of action of local anesthetics. Discuss the preparation and therapeutic uses of Xylocaine, Etidocaine and Bupivacaine. | 7 | 20 | 10 |
| 3. Define Sterilization. Classify sterilization methods and discuss in detail about the dry heat sterilization. | 7 | 20 | 10 |

II. Write Notes on:

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| 1. Therapeutic uses and adverse effects of Beta blockers. | 4 | 10 | 5 |
| 2. Pre-anesthetic medication. | 4 | 10 | 5 |
| 3. Role of inducing agents in general anesthesia. | 4 | 10 | 5 |
| 4. Mechanism of action of Diazepam. | 4 | 10 | 5 |
| 5. Compare and contrast the pharmacology of Morphine and pethidine. | 4 | 10 | 5 |
| 6. Classify Antihistamines. Explain briefly the clinical uses of antihistamines. | 4 | 10 | 5 |
| 7. Cause of wound infection and Wound healing. | 4 | 10 | 5 |
| 8. Sterilization using radiation. | 4 | 10 | 5 |

III. Short Answers on:

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| 1. Adverse reactions of Insulin. | 2 | 4 | 3 |
| 2. Therapeutic uses of Nitroglycerine. | 2 | 4 | 3 |
| 3. What are antibiotics. List any four antibiotics used in the treatment of bacterial infections. | 2 | 4 | 3 |
| 4. Effects of Mannitol in the treatment of edema. | 2 | 4 | 3 |
| 5. Role of Oxytocin in the induction of labor. | 2 | 4 | 3 |
| 6. Pharmacological actions of Fentanyl. | 2 | 4 | 3 |
| 7. Mechanism of action of Protamine sulphate. | 2 | 4 | 3 |
| 8. Types of filters used in sterilization by filtration method. | 2 | 4 | 3 |
| 9. Prevention and treatment of IV associated infections. | 2 | 4 | 3 |
| 10. What is meant by arrhythmia. Discuss the various types of cardiac arrhythmias. | 2 | 4 | 3 |
