

[LI 0216]

FEBRUARY 2016

Sub.code: 1011

**B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY  
SECOND YEAR  
PAPER I – PATHOLOGY, MICROBIOLOGY, PHARMACOLOGY**

*Q.P. Code : 801011*

**Time : Three Hours**

**Maximum : 100 Marks**

**Answer ALL questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Classify culture media and add a note on various culture methods.
2. Define and classify hypersensitivity. Add a note on Type I hypersensitivity.
3. Classify beta lactam antibiotics. Write mechanism of action, pharmacokinetics, adverse effects and therapeutics uses of penicillin.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Classify various staining techniques and explain about Gram's staining.
2. Viral hemorrhagic fever.
3. Human immunodeficiency virus.
4. Autoimmunity.
5. Enumerate oncogenic virus. Discuss the mechanism of viral oncogenes.
6. Normal microbial flora of human body.
7. Plasma expanders.
8. Antifungal drugs.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Joseph Lister.
2. Cytokines.
3. Laboratory diagnosis of tuberculosis.
4. Universal precautions.
5. Immunoglobulin G (Ig G)
6. Heparin.
7. Bronchodilators.
8. Tumor markers.
9. Endogenous opioid peptides.
10. Human teratogenic agents.

\*\*\*\*\*