

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

*Q.P. Code: 801011*

**Time: Three Hours**

**Maximum: 100 Marks**

**Answer all questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Write in detail about bacterial cell wall.
2. Define and classify Shock. Add a note on pathophysiology of shock.
3. Classify antihypertensive drugs. Write mechanism of action, drug interaction, adverse effects and therapeutic uses of diuretics.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Bacterial growth curve.
2. Disinfectants used in hospital.
3. Hepatitis B virus.
4. Antiepileptic drugs.
5. Vascular and cellular changes in inflammation.
6. Type III hypersensitivity reaction.
7. Antiretroviral drugs.
8. Humoral mediated immunity.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Robert Koch.
2. Swine flu.
3. Weil's disease.
4. Granulomatous inflammation.
5. Gangrene.
6. Antimicrobial resistance.
7. Insulin.
8. Antihelicobacter pylori drugs.
9. Bioavailability.
10. Treatment of organophosphorous poisoning.

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