

[LB 0212]

AUGUST 2012

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

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

I. Elaborate on:

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

1. Chemical Mediators of acute inflammation.	7	20	10
2. Mechanism of cell injury and repair.	7	20	10
3. Biology of tumor growth in benign & Malignant neoplasms.	7	20	10

II. Write notes on:

1. Systematic effects of inflammation.	4	10	5
2. Natural Killer Cells.	4	10	5
3. Anaerobes.	4	10	5
4. Normal Microbial flora of human body.	4	10	5
5. Universal Precautions.	4	10	5
6. Genetic Implications in cancer.	4	10	5
7. Multidrug resistance tuberculosis.	4	10	5
8. Clinical features of AIDS.	4	10	5

III. Short Answers:

1. Carcinoma.	2	4	3
2. Apoptosis.	2	4	3
3. Innate Immunity.	2	4	3
4. Oncogene.	2	4	3
5. Commensals.	2	4	3
6. Multidrug Resistance.	2	4	3
7. Subcutaneous Medications.	2	4	3
8. Tumor Metastasis.	2	4	3
9. Autoimmunity.	2	4	3
10. Opsonins.	2	4	3

[LC 0212]

FEBRUARY 2013

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SECOND YEAR

PAPER I- PATHOLOGY, MICROBIOLOGY & PHARMACOLOGY

Q.P. Code : 801011

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

I. Elaborate on:

(3X10=30)

1. Cellular Events in Acute inflammation.
2. Explain the mechanism by which the extra cellular microbes are eliminated.
3. Carcinogenic agents.

II. Write notes on:

(8X5=40)

1. Granulomatous Inflammation.
2. Autoimmune disorders.
3. Noscomial infection.
4. Oncogenic Viruses.
5. Adverse drug reactions.
6. Transport Culture Medias.
7. Routes of drug Administration.
8. Enumerate the important oportunistic infections in AIDS.

III. Short Answers:

(10X3=30)

1. Acquired Immunity.
2. Opsonization.
3. Alternate Pathway in complement systems.
4. HLA.
5. Cytokins.
6. NK Cells.
7. Carcinoma.
8. Opsonins.
9. Vasodilators.
10. Stem cells.

[LD 0212]

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Q.P. Code: 801011

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

I. Elaborate on:

(3 x 10 = 30)

1. Define cell injury. Differentiate between reversible and irreversible all injury. Describe in detail about neurosis.
2. Define nosocomial infection. Describe in detail about the common types of nosocomial infection and its prevention.
3. Classify antiarrhythmic drugs. Write the mechanism of action, drug interaction and side effects of each class of drugs.

II. Write notes on:

(8 x 5 = 40)

1. Granulomatous inflammation
2. Type III hypersensitivity
3. Differentiate between Benign and malignant neoplasms
4. Dengue
5. Incineration
6. Anaphylaxis
7. Cephalosporins
8. Bronchodilators

III. Short Answers on:

(10 x 3 = 30)

1. Methods of administration of insulin
2. Bioavailability of drugs
3. Charcoal
4. Plasma expanders
5. Gram staining
6. What are the methods followed to dispose infectious wastes
7. Septicaemia
8. Unstable angina
9. Toxic effects of lead
10. Megaloblastic anemia.

[LF 0212]

AUGUST 2014

Sub. Code: 1011

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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. Dengue – Symptoms, mode of transmission, Diagnosis, treatment and prevention.
2. Carcinogenic agents and cellular interaction.
3. Proton pump inhibitors.

II. Write notes on:

(8 x 5 = 40)

1. AFB staining procedure with interpretation.
2. Functioning methods of Autoclave with diagram.
3. Disposal of Biomedical wastes.
4. Neutrophils and their role in inflammation.
5. Immunoglobulin's.
6. Benzodiazepine.
7. Thyroxin.
8. Diuretics.

III. Short Answers on:

(10 x 3 = 30)

1. Bacterial growth curve.
2. Preparation of Nutrient agar.
3. Draw a microscope and mark the parts.
4. Define necrosis and give two examples.
5. Name two differences between benign and malignant tumor.
6. Vitamin C deficiency.
7. Granuloma.
8. Tetanus toxoid.
9. Atropine.
10. Ondansetron.

[LG 0215]

FEBRUARY 2015

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 anti convulsants. Add note on indication, dosage and side effects.
2. Define sterilization. Add note on physical methods of sterilization.
3. Type IV hypersensitivity reaction.

II. Write notes on:

(8 x 5 = 40)

1. Quinolones.
2. Inhalers.
3. Ischemic heart diseases and risk factors.
4. Pneumoconiosis.
5. Vitamin D deficiency.
6. Chemical methods of sterilization.
7. Types of Healthcare associated infections.
8. Hepatitis B virus.

III. Short Answers on:

(10 x 3 = 30)

1. Metronidazole.
2. Probiotics.
3. Acyclovir.
4. Hot air oven.
5. Leptospirosis.
6. Grams stain.
7. Chemotaxis.
8. T-Lymphocytes.
9. Types of hypersensitivity reaction.
10. Microbial growth curve.

[LH 0815]

AUGUST 2015

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. Define sterilization. Classify various methods of sterilization. Add note on moist heat sterilization.
2. Define and classify edema. Discuss the pathophysiology of various types of edema with examples.
3. Classify oral hypoglycaemic drugs. Add note on mechanism of action, drug interaction, pharmacokinetics and adverse effects of Sulphonylureas.

II. Write notes on:

(8 x 5 = 40)

1. Hospital waste management.
2. Gaseous disinfectants.
3. Nosocomial infection.
4. Necrosis versus Apoptosis.
5. Cell mediated immunity
6. Chemical mediators of acute inflammation.
7. Broad spectrum antibiotics.
8. Antidiarrhoeal drugs.

III. Short answers on:

(10 x 3 = 30)

1. Louis Pasteur.
2. Difference between exotoxin and endotoxin.
3. Laboratory diagnosis of enteric fever.
4. Difference between benign and malignant tumour.
5. Phagocytosis.
6. Null cells.
7. Hypertensive emergencies and urgencies.
8. Uses of corticosteroids.
9. Pharmacotherapy of migraine.
10. Newer drug delivery system.

[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.

**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.
