

**B.Sc. MEDICAL RECORD SCIENCE****FIRST YEAR****PAPER I – PRE & PARA CLINICAL SUBJECTS****(HUMAN ANATOMY, PHYSIOLOGY, CLINICAL AND GENERAL PATHOLOGY, MICROBIOLOGY, BIOCHEMISTRY, PHARMACOLOGY & FORENSIC MEDICINE)*****Q.P. Code : 801701*****Time : Three Hours****Maximum : 100 marks****Answer ALL questions in the same order.****I. Elaborate on:****Pages Time Marks  
(Max.) (Max.) (Max.)**

- |   |   |         |    |
|---|---|---------|----|
| 1. Define Infection. Enumerate sources of infection and methods of transmission of infection with examples. | 7 | 20 min. | 10 |
| 2. Give a broad classification of bacteria with examples. What are their methods of identification.         | 7 | 20 min. | 10 |
| 3. Describe in detail the medico legal aspects of external wounds.  | 7 | 20 min. | 10 |

**II. Write Notes on:**

- |  |   |         |   |
|--|---|---------|---|
| 1. Explains the important criteria necessary to be recorded in an alleged rape case. | 4 | 10 min. | 5 |
| 2. Classify Anticancer drugs.  | 4 | 10 min. | 5 |
| 3. Drugs used in pre-anesthetic medication.  | 4 | 10 min. | 5 |
| 4. Oral Rehydration Therapy.   | 4 | 10 min. | 5 |
| 5. List types of joints in the body and its function.                                | 4 | 10 min. | 5 |
| 6. List the small bones of the hands and feet.                                       | 4 | 10 min. | 5 |
| 7. Functions of protein in the body.   | 4 | 10 min. | 5 |
| 8. Describe structure of a cell and the functions of cell components.                | 4 | 10 min. | 5 |

**III. Short Answers on:**

- |   |   |        |   |
|---|---|--------|---|
| 1. Define Enzyme, Co-enzyme and Iso enzyme.                     | 2 | 4 min. | 3 |
| 2. Thyroid function tests.                                      | 2 | 4 min. | 3 |
| 3. Acid-base balance in the body.                               | 2 | 4 min. | 3 |
| 4. Balanced Diet.   | 2 | 4 min. | 3 |
| 5. Name two bleeding disorders. What is Von Wille brand factor? | 2 | 4 min. | 3 |
| 6. Normal Cardiac Cycle.  | 2 | 4 min. | 3 |
| 7. What is lung surfactant? What are its applied effects?       | 2 | 4 min. | 3 |
| 8. Types of Necrosis.   | 2 | 4 min. | 3 |
| 9. What is Phagocytosis?  | 2 | 4 min. | 3 |
| 10. CSF examination.  | 2 | 4 min. | 3 |

[LC 0212]

FEBRUARY 2013

Sub. Code: 1701

**B.Sc. MEDICAL RECORD SCIENCE**

**FIRST YEAR**

**PAPER I – PRE & PARA CLINICAL SUBJECTS**

**(HUMAN ANATOMY, PHYSIOLOGY, CLINICAL AND GENERAL PATHOLOGY,  
MICROBIOLOGY, BIOCHEMISTRY, PHARMACOLOGY & FORENSIC MEDICINE)**

*Q.P. Code : 801701*

**Time : Three Hours**

**Maximum : 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Name and explain the mechanism of drugs acting on autonomic nervous system?
2. Write in detail about medico-legal aspects of wounds.
3. Define anemia. Classify them by morphological and etiological methods.  
Add a note on sickle cell anemia.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Gastrointestinal hormones.
2. Tests done on various body fluids.
3. Sanitation and disinfection.
4. Clotting mechanism of blood by intrinsic mechanism.
5. General and local anaesthetics.
6. Cultivation and identification of bacteria.
7. Integumentary system.
8. Signs of Inflammation.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. Antipyretics.
2. Layers of retina.
3. Cross matching.
4. Drowning.
5. Hypnotics.
6. Parts of respiratory system.
7. Name 3 anticoagulants.
8. Pathogenic organisms.
9. Medicolegal autopsy.
10. Electrolytes in plasma.

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[LD 0212]

AUGUST 2013

Sub. Code: 1701

**B.Sc. MEDICAL RECORD SCIENCE**

**FIRST YEAR**

**PAPER I – PRE & PARA CLINICAL SUBJECTS**

**(HUMAN ANATOMY, PHYSIOLOGY, CLINICAL AND GENERAL PATHOLOGY,  
MICROBIOLOGY, BIOCHEMISTRY, PHARMACOLOGY & FORENSIC MEDICINE)**

*Q.P. Code : 801701*

**Time : Three Hours**

**Maximum : 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Name the anterior pituitary hormones. Mention their actions on target organs.
2. Write in detail about the classification and characteristics of organisms.
3. Describe in detail the mechanism of drugs acting on autonomic nervous system.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Allergy and their treatment.
2. Nitrogenous substances.
3. Types of vitamins.
4. Functions of liver.
5. Benign tumours.
6. Antihistamines.
7. Functions of Cerebrospinal fluid.
8. Coagulants.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. Food poisoning.
2. Parts of cerebellum.
3. Formation of Lymph.
4. Blood brain barrier.
5. Names of 3 gastrointestinal hormones.
6. Drug addiction.
7. Any 2 Diuretics and their effects.
8. Neuromuscular junction.
9. Degeneration.
10. Antiseptics.

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[LE 0212]

FEBRUARY 2014

Sub. Code: 1701

**B.Sc. MEDICAL RECORD SCIENCE**

**FIRST YEAR**

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*Q.P. Code : 801701*

**Time : Three Hours**

**Maximum : 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. What is anemia? Classify anemia. Add a note on iron deficiency anemia.
2. Name the pituitary hormones. Explain in detail the features of Gigantism & Dwarfism.
3. What are the parts of digestive system? Enumerate the functions of liver.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Benign and malignant tumours.
2. Blood groups.
3. Musculoskeletal system.
4. Chemistry of human body fluids in health and diseases.
5. Drugs acting on autonomic nervous system.
6. Medico legal autopsy.
7. Chemotherapy.
8. Inflammation.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. Antipyretics.
2. Allergy.
3. Wound certificate.
4. Parts of nervous system.
5. Infection.
6. Heart sounds.
7. Diuretics.
8. Enzymes produced in Gastrointestinal tract.
9. Cultivation and identification of organisms.
10. Musculoskeletal system.

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[LF 0212]

AUGUST 2014

Sub. Code: 1701

**B.Sc. MEDICAL RECORD SCIENCE**

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*Q.P. Code : 801701*

**Time : Three Hours**

**Maximum : 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Describe the various tests done on various body fluids and tissues.
2. Write about clotting mechanism of the blood.
3. Explain the mechanism by which various drugs act on autonomic nervous system.

**II. Write notes on:**

**(8 x 5 = 40)**

1. General and local anaesthetics.
2. Antihistamines.
3. Lipid metabolism.
4. Inflammation.
5. Urogenital system.
6. Classification and characteristics of organisms.
7. Blood transfusions.
8. Proteins and non proteins.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. Rape.
2. Wound certificate.
3. Antiseptics.
4. Psycho-pharmacacological agents.
5. Organs of special sense.
6. Malignant tumours.
7. Cerebrospinal fluid.
8. Virus and fungus.
9. Antipyretics.
10. Drowning.

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[LG 0215]

FEBRUARY 2015

Sub. Code: 1701

**B.Sc. MEDICAL RECORD SCIENCE**

**FIRST YEAR**

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**(HUMAN ANATOMY, PHYSIOLOGY, CLINICAL AND GENERAL PATHOLOGY,  
MICROBIOLOGY, BIOCHEMISTRY, PHARMACOLOGY & FORENSIC MEDICINE)**

*Q.P. Code : 801701*

**Time : Three Hours**

**Maximum : 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Describe the human anatomy and physiology of digestive system.
2. Write about benign and malignant tumours.
3. Classification and characteristics of organisms.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Allergy.
2. Drugs acting on autonomic nervous system.
3. Medicolegal autopsy.
4. Organs of special sense.
5. Electrolytes.
6. Disinfection.
7. Coagulants and anticoagulants.
8. Blood groups.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. Infection.
2. Vitamins.
3. Cerebrospinal fluid.
4. Narcotic analgesics.
5. Virus and fungus.
6. Antihistamines.
7. Degeneration.
8. Traffic accidents.
9. Chemotherapy.
10. Acid base balance.

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[LH 0815]

AUGUST 2015

Sub. Code: 1701

**B.Sc. MEDICAL RECORD SCIENCE**

**FIRST YEAR**

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**(HUMAN ANATOMY, PHYSIOLOGY, CLINICAL AND GENERAL PATHOLOGY,  
MICROBIOLOGY, BIOCHEMISTRY, PHARMACOLOGY & FORENSIC MEDICINE)**

*Q.P. Code : 801701*

**Time : Three Hours**

**Maximum : 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Classify tumours according to the sites of origin. Enumerate the causative factors and mode of spread of tumours.
2. What is medico-legal autopsy? Explain its objects and rules.
3. Classify Vitamins. Describe Vitamin-D (Sunshine vitamin).

**II. Write notes on:**

**(8 x 5 = 40)**

1. What is gangrene? Explain the various types of gangrene.
2. Name the parts of the nervous system. What are the functions of the brain?
3. What is inquest? Mention various types.
4. Explain briefly the medico-legal aspects of wounds.
5. Drugs used for treating bronchial asthma.
6. Functions of blood.
7. What are viruses? Write briefly about AIDS.
8. What is shock? Name various causes of shock.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. E.S.R. (Erythrocyte Sedimentation Rate).
2. What is degeneration? Name two causes.
3. Functions of Pancreas.
4. Name any three diseases caused by fungi.
5. Name three features of long bones.
6. Functions of lipids.
7. Antipyretics.
8. Rape.
9. Parts of the respiratory system.
10. Name any 3 drugs used in treatment of Tuberculosis.

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[LI 0216]

FEBRUARY 2016

Sub. Code: 1701

**B.Sc. MEDICAL RECORD SCIENCE**  
(Candidates admitted from 2010-2011 onwards)

**FIRST YEAR**

**PAPER I – PRE AND PARA CLINICAL SUBJECTS HUMAN ANATOMY,  
PHYSIOLOGY, CLINICAL AND GENERAL PATHOLOGY,  
MICROBIOLOGY, BIOCHEMISTRY, PHARMACOLOGY AND  
FORENSIC MEDICINE**

*Q.P. Code : 801701*

**Time: Three Hours**

**Maximum : 100 Marks**

**Answer All questions**

**I. Elaborate on:** **(3 x 10 = 30)**

1. Describe various blood groups. Add a note on transfusion reaction.
2. Name the endocrine glands present in our body. Write briefly about diabetes mellitus.
3. What is medical evidence? Explain different types of medical evidence.

**II. Write notes on:** **(8 x 5 = 40)**

1. What are the causes and effects of Ischaemia?
2. Describe various routes of drug administration.
3. Water soluble Vitamins.
4. Functions of autonomic nervous system.
5. What are the criteria necessary to be recorded in an alleged rape case?
6. Food poisoning.
7. Parts of digestive system.
8. What is drug addiction?

**III. Short answers on:** **(10 x 3 = 30)**

1. Hanging.
2. Functions of Kidney.
3. Drugs used for anemia.
4. What is atrophy? Name the causes of atrophy.
5. Functions of Proteins.
6. Cardiac muscle.
7. Granuloma.
8. What is Medical Ethics?
9. Use of Finger Prints.
10. Define enzyme and coenzyme.

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[LJ 0816]

AUGUST 2016

Sub. Code: 1701

**B.Sc. MEDICAL RECORD SCIENCE**  
(Candidates admitted from 2010-2011 onwards)

**FIRST YEAR**

**PAPER I – PRE AND PARA CLINICAL SUBJECTS HUMAN ANATOMY,  
PHYSIOLOGY, CLINICAL AND GENERAL PATHOLOGY,  
MICROBIOLOGY, BIOCHEMISTRY, PHARMACOLOGY AND  
FORENSIC MEDICINE**

*Q.P. Code : 801701*

**Time: Three Hours**

**Maximum : 100 Marks**

**Answer All questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Name the parts of the digestive system. Explain digestion in the small intestine.
2. Explain medico legal autopsy.
3. Describe the classification and characteristics of micro organisms.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Classification of tumors.
2. Formation and functions of cerebrospinal fluid.
3. What is gangrene? Describe the types of gangrene.
4. Drowning.
5. Diuretics.
6. Draw a diagram of the heart and label its parts.
7. What is inquest? Mention various types.
8. Chemotherapy.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Name three causes for shock.
2. Name the causes for asphyxia death.
3. Antiseptics.
4. Name the fat soluble Vitamins.
5. Name the hormones secreted by pituitary gland.
6. Features of benign tumors.
7. What is drug addiction? Name any two drugs of addiction.
8. What is toxicology?
9. Name three functions of lymph.
10. Write three features of cardiac muscle?

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[LK 0217]

FEBRUARY 2017

Sub. Code: 1701

**B.Sc. MEDICAL RECORD SCIENCE**  
(Candidates admitted from 2010-2011 onwards)

**FIRST YEAR**

**PAPER I – PRE AND PARA CLINICAL SUBJECTS HUMAN ANATOMY,  
PHYSIOLOGY, CLINICAL AND GENERAL PATHOLOGY,  
MICROBIOLOGY, BIOCHEMISTRY, PHARMACOLOGY AND  
FORENSIC MEDICINE**

*Q.P. Code : 801701*

**Time: Three Hours**

**Maximum : 100 Marks**

**Answer All questions**

**I. Elaborate on:** (3 x 10 = 30)

1. Describe the composition and function of blood.
2. Classify Vitamins. Write about water soluble vitamins.
3. What are the function of the kidney? Explain the mechanism of formation of urine?

**II. Write notes on:** (8 x 5 = 40)

1. Various routes of drug administration.
2. Anti hypertensive drugs.
3. Mycobacteria.
4. Various movements possible in a synovial joint with examples.
5. Functions of carbohydrates.
6. Diabetes Mellitus.
7. Traffic accidents.
8. Mechanism of respiration.

**III. Short answers on:** (10 x 3 = 30)

1. Functions of water.
2. Types of gangrene.
3. What is inflammation? Name the types.
4. What is the normal adult blood pressure?
5. Name any three electrolytes present in our body.
6. Define Haemostatis.
7. Name the parts of the female reproductive system.
8. Name any three drugs used to reduce fever.
9. What is shock? Name any two causes of shock.
10. What is food poisoning?

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**B.Sc. MEDICAL RECORD SCIENCE**

**FIRST YEAR**

**PAPER I – PRE AND PARA CLINICAL SUBJECTS HUMAN ANATOMY,  
PHYSIOLOGY, CLINICAL AND GENERAL PATHOLOGY, MICROBIOLOGY,  
BIOCHEMISTRY, PHARMACOLOGY AND FORENSIC MEDICINE**

*Q.P. Code: 801701*

**Time: Three Hours**

**Maximum: 100 Marks**

**Answer all questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Define cardiac cycle and explain the activities.
2. Write an essay on disinfection and antiseptics.
3. Describe infection in detail.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Vitamins.
2. General and local anaesthetic drugs.
3. Wound certificate.
4. Medico – legal autopsy.
5. Allergy.
6. Cerebro spinal fluid.
7. Blood grouping and cross matching.
8. Hyper thyrodisim.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Functions of the skin.
2. Tissue respiration.
3. Thoracic duct.
4. Autonomous nervous system.
5. Metabolism.
6. Classification of Microorganisms.
7. Diuretics.
8. Routes of drug administration.
9. Auditory ossicles.
10. Sodomy.

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**B.Sc. MEDICAL RECORD SCIENCE  
FIRST YEAR**

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PHYSIOLOGY, CLINICAL AND GENERAL PATHOLOGY, MICROBIOLOGY,  
BIOCHEMISTRY, PHARMACOLOGY AND FORENSIC MEDICINE**

*Q.P. Code: 801701*

**Time: Three Hours**

**Maximum: 100 Marks**

**Answer all questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Describe in detail about Immunity.
2. Describe in detail about the enzymes produced in the GI Tract.
3. Describe the structure and functions of the vertebral column.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Inflammation.
2. Thoracic duct.
3. Cerebro spinal fluid.
4. Drugs used in the respiratory system.
5. Hanging.
6. Medico legal records in the hospital.
7. Cultivation and identification of organisms.
8. Electrolytes.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Fertilization.
2. Autopsy.
3. Blood supply to Heart.
4. Drowning.
5. Different types of medications.
6. Refractory errors of the eye.
7. Degeneration.
8. Mention three antibiotics.
9. Vitamins.
10. Auditory ossicles.

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**B.Sc. MEDICAL RECORD SCIENCE**

**FIRST YEAR**

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PHYSIOLOGY, CLINICAL AND GENERAL PATHOLOGY, MICROBIOLOGY,  
BIOCHEMISTRY, PHARMACOLOGY AND FORENSIC MEDICINE**

*Q.P. Code: 801701*

**Time: Three Hours**

**Maximum: 100 Marks**

**Answer all questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. What are the parts of digestive system? Write in detail about liver function tests.
2. Define inflammation. Write in detail about acute inflammation.
3. What is Medico – legal autopsy? Explain its objects and rules.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Lab investigations for diabetes.
2. Drugs used in hypertension.
3. Name the parts and functions of central nervous system.
4. Differences between Benign and Malignant tumours.
5. Drowning.
6. Neuromuscular junction.
7. Classify bacteria with examples.
8. Normal cardiac cycle.

**III. Short answers on:**

**(10 x 3 = 30)**

1. What is Phagocytosis?
2. Balanced diet.
3. Iron deficiency anaemia.
4. Drug allergy.
5. Cross matching.
6. Universal precautions.
7. Acquired Immuno deficiency.
8. Parts of the Eye.
9. Electrolytes.
10. List three anti-coagulants.

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**B.Sc. MEDICAL RECORD SCIENCE**

**FIRST YEAR**

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*Q.P. Code: 801701*

**Time: Three Hours**

**Maximum: 100 Marks**

**Answer all questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Classify bacteria? Write in detail about culture and sensitivity of the organisms.
2. Describe various blood groups, cross matching and transfusion reactions.
3. Explain in detail about Medico – legal autopsy.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Spread of Malignant tumour.
2. Lab diagnosis of diabetes.
3. Liver function tests.
4. Sterilization by heat.
5. Parts of cardio vascular system.
6. Chronic inflammation.
7. Iron deficiency Anaemia.
8. Drug allergy.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Drowning.
2. Drug addiction.
3. Water soluble vitamins.
4. Megaloblastic anaemia.
5. Define enzyme, co-enzyme and iso-enzyme
6. Anti coagulants.
7. Refractory errors of the eye.
8. Oral rehydration.
9. Food poisoning.
10. Antiseptics.

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**B.Sc. MEDICAL RECORD SCIENCE****FIRST YEAR****PAPER I – PRE AND PARA CLINICAL SUBJECTS HUMAN ANATOMY,  
PHYSIOLOGY, CLINICAL AND GENERAL PATHOLOGY, MICROBIOLOGY,  
BIOCHEMISTRY, PHARMACOLOGY AND FORENSIC MEDICINE***Q.P. Code: 801701***Time: Three Hours****Maximum: 100 Marks****Answer all questions****I. Elaborate on:****(3 x 10 = 30)**

1. Explain in detail on Respiratory System. Draw a neat diagram and Label its parts.
2. Describe in detail of the Mechanism of drugs acting on Autonomic Nervous System.
3. Define:  
a) Hanging b) Drowning c) Wound Certificate d) Sodomy e) Autopsy

**II. Write notes on:****(8 x 5 = 40)**

1. Menstruation Cycle.
2. Types of Epithelial Tissue.
3. Draw a neat diagram of Skin. Label its parts.
4. Lipoprotein.
5. Types of Anemia.
6. Classify Vitamins and Disorders Associated with it.
7. Functions of Liver and Spleen.
8. Composition of Blood.

**III. Short answers on:****(10 x 3 = 30)**

1. Types of Muscles.
2. Parts of Nervous System and Draw the structure of a Neuron.
3. Draw the Divisions of Vertebrae.
4. List out the parts of male reproductive system.
5. What is Phagocytosis?
6. Strangulation.
7. Pernicious Anemia.
8. Types of Vitamins.
9. Any two Anti – Tuberculotic drug and Bronchodilators.
10. Inquest.

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