

**PARAMEDICAL BOARD, BENGALURU**  
**Medical Records Technology**

**Time: 3.00 HRS**

**Max Marks:100**

**GENERAL INSTRUCTIONS:**

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

**Subject: Medical Record Sciences**

**Q P CODE: 5141**

**I. Short notes, answer any FOUR questions.**

**4 X 5 = 20 marks**

1. Identification of patient at O.P. Registration counters.
2. Explain about Hospital In- Patient census.
3. Flow of medical records.
4. The qualitative & quantitative analysis of medical records.
5. The medical records filing system.

**II. Short answers**

**10 X 3 = 30 marks**

6. Medical record committee.
7. Numbering system.
8. Tracer card.
9. Diagnostic / Disease index card.
10. Retention of medical records.
11. Assembling & deficiency check.
12. The purpose and uses of medical records.
13. Medical audit.
14. Discharge analysis.
15. I.P Registration counter

**Subject: Medical Record Sciences**

**Q P CODE: 5142**

**I. Short notes, answer any FOUR questions.**

**4 X 5 = 20 marks**

1. Write the registration of Birth & Death.
2. Explain about IPC.
3. Write about Medico Legal Cases.
4. How to used Medical Records UG & PG students.
5. Medical Audit.

**II. Short answers**

**10 X 3 = 30 marks**

6. Tracer card.
7. Evidence.
8. Accident registers.
9. Estoppels.
10. Short note of the birth & death collection.
11. Summons.
12. Warrant.
13. Bail able offence.
14. Pleader.
15. Third party.

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**Subject: Medical Record Sciences**

**Q P CODE: 5141**

**I. Short notes, answer any FOUR questions.**

**4 X 5 = 20 marks**

1. History of medical records of India.
2. What are forms used in concerned ward of the hospital.
3. Write the filling system.
4. What are the requirements of equipments of medical records dept.
5. What are the records maintenance in MRD

**II. Short answers**

**10 X 3 = 30 marks**

6. Medical records.
7. Responsibility Patient Alpha index card.
8. What are values of medical records?
9. Hospital census.
10. Retention of of medical records.
11. Write the Birth Register contains.
12. How many types of index card? What are they.
13. Medical Audit.
14. Write OP & IP registration counter.
15. What are forms used in OP & IP registration

**Subject: Medical Record Sciences**

**Q P CODE: 5142**

**1. Short notes, answer any FOUR questions.**

**4 X 5 = 20 marks**

2. Brief explanation about ICD.
3. Formalities in issue of corrigendum in Medical Records MLC, General, Birth & Death cases.
4. Office procedure & maintenance of MR.
5. Organization & Management of MRD.
6. Medical Audit.

**II . Short Answers:**

**10×3=30marks**

7. Active records & Inactive records.
8. Functions of MRD.
9. Collection of birth & death case records.
10. Indian evidence act 1872.
11. IPC.
12. Complete & incomplete records.
13. Maintenance hospital statistics.
14. Medico Legal Cases.
15. Criminal procedure.
16. Discharge analysis

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**Subject: Medical Record Sciences**

**Q P CODE: 5141**

**1. Short notes, answer any FOUR questions.**

**4 X 5 = 20 marks**

2. Retention and preservation of Medical Records.
3. Explain about medical Audit Committee.
4. History of Medical Records in brief.
5. Basic Medical Records forms used at O.P & I.P Registration.
6. Flow of medical records in the Medical Records Department.

**II. Short answers**

**10 X 3 = 30 marks**

7. Daily discharge analysis.
8. Census.
9. Birth registration.
10. Assembling & Deficiency check.
11. Complete record control.
12. In-patient Accession registers.
13. DAMA
14. Tracer card.
15. Collection & analysis of hospital statistics.
16. Definition of Medical Records.

**Subject: Medical Record Sciences**

**Q P CODE: 5142**

**1. Short notes, answer any FOUR questions.**

**4 X 5 = 20 marks**

2. Maintenance of the Hospital Statistics
3. Explanation about the ICD
4. Imp. Function of MRD
5. Registration Pf Births and Deaths
6. Issuing Forms and Registers

**I. Short answers**

**10×3=30marks**

7. I P Daily Census Report
8. Discharge Analysis
9. Coding/ Indexing
10. Complete Incomplete Records control
11. Warrant
12. Summons
13. Estoppels
14. Indian Evidence Act 1872
15. Bail able, Non-bail able offence
16. Personal & Impersonal Document

PARAMEDICAL BOARD, BENGALURU  
Medical Records Technology

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- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

**Subject: Medical Record Sciences**

**Q P CODE: 5141**

**1. Short notes, answer any FOUR questions.**

**4 X 5 = 20 marks**

2. Explain the values of Medical Records.
3. Explain Forms control.
4. Retention of medical record in details.
5. Purpose and uses of medical records.
6. Explain the Indexes.

**II. Short answers**

**10 X 3 = 30 marks**

7. DAMA
8. Medico Legal Cases.
9. Filing system.
10. Medical audit.
11. Admission record.
12. Accession register.
13. Assembling.
14. Medical record committee.
15. Census.
16. Tracer card.

**Subject: Medical Record Sciences**

**Q P CODE: 5142**

**1. Short notes, answer any FOUR questions.**

**4 X 5 = 20 marks**

2. Organization and Management of MRD
3. Functions of MRD
4. How many Kinds of Certificate issued in MRD
5. Brief explanation about the ICD
6. Formalities of issuing of corrigendum

**10 X 3 = 30 marks**

**II Short Notes:-**

7. Pleader
8. Bail able offence
9. Types of evidence, Explain about the Document
10. Warrant
11. Summons
12. RTI
13. FIR
14. IPC
15. Active Inactive records Personal & Impersonal Document.
16. Discharge analysis?

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**Subject: Medical Record Sciences**

**Q P CODE: 5141**

**1. Short notes, answer any FOUR questions.**

**4 X 5 = 20 marks**

2. What are the major functions of Medical Audit Committee and dist out the members of the committee?
3. Differentiate the Quantitative Analysis and Qualitative Analysis.
4. Briefly explain about the major function of Medical Records Department?
5. Explain the detail about the numbering system and which system is beneficiary to the patients flow?
6. Explain about Filing system

**II. Short answers**

**10 X 3 = 30 marks**

7. Definitions.
8. Differentiate the Record & Medical Record.
9. Census.
10. Master patient Index.
11. Explain straight numerical filing system.
12. Numbering system.
13. Accession register.
14. Birth & Death section.
15. O.P registration counters.
16. DAMA.

**Subject: Medical Record Sciences**

**Q P CODE: 5142**

**1. Short notes, answer any FOUR questions.**

**4 X 5 = 20 marks**

2. What are functions of MRD?
3. Brief explanation about the ICD
4. What are Birth and Deaths reports delay sending
5. Follow up the procedure in MRD
6. Organization and management of the MRD

**II. Short Notes:-**

**10×3=30**

7. Collection of Births and Deaths case records
8. Tracer card
9. Active record & Inactive records
10. Write about corrigendum
11. Personal & Impersonal Document
12. What are the certificate issued in the MRD
13. Discharge Analysis
14. Filling system
15. Warrant
16. FIR

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**Medical Records Technology**

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**Subject: Medical Record Sciences**

**Q P CODE: 5141**

- 1. Short notes, answer any FOUR questions. 4 X 5 = 20 marks**
2. Explain the values of Medical Records.
3. Explain Forms control.
4. Retention of medical record in details.
5. Purpose and uses of medical records.
6. Explain the Indexes.

**II. Short answers**

**10 X 3 = 30 marks**

7. DAMA
8. Medico Legal Cases.
9. Filing system.
10. Medical audit.
11. Admission record.
12. Accession register.
13. Assembling.
14. Medical record committee.
15. Census.
16. Tracer card.

**Subject: Medical Record Sciences**

**Q P CODE: 5142**

- 1. Short notes, answer any FOUR questions. 4 X 5 = 20 marks**
2. Organization and Management of MRD
3. Functions of MRD
4. How many Kinds of Certificate issued in MRD
5. Brief explanation about the IC
6. Formalities of issuing of corrigendum.

**Short answers**

**5 X 3 = 15 marks**

7. Pleader
8. Bail able offence
9. Types of evidence, Explain about the Document
10. Warrant
11. Summons
12. RTI
13. FIR
14. IPC
15. Active Inactive records Personal & Impersonal Document.Discharge analysis

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**Subject: Medical Record Sciences**

**Q P CODE: 5141**

**I. Short notes, answer any FOUR questions.**

**4 X 5 = 20 marks**

- 1).Write brief History of Medical Records In India?
- 2).Write brief note about the Medical Records Committee?
- 3). what is the duties and responsibilities of Reception counter Staff?
- 4). what is Assembling and Deficiency? Explain
- 5). Write brief note about the Registration personnel duties and responsibilities?

**II. Short answers**

**10 X 3 = 30 marks**

- 6).What is Inventory register? Explain
- 7).What is Mid Night Census? Explain
- 8).Write the Functions of EMS?
- 9).Write the contents of Discharge Summary
- 10).Design Deficiency Check format
- 11). Accident Register
- 12).How to long preserve the Medical Records? Explain
- 13).What is patient Alpha Index Card? Explain
- 14).What types of equipment required in MRD?
- 15).Duties and Responsibility of Medical Records Officer?

**Subject: Medical Record Sciences**

**Q P CODE: 5142**

**I. Short notes, answer any FOUR questions.**

**4 X 5 = 20 marks**

- 1).Write brief note about the Organization of MRD?
- 2).Write brief note about the functions of MRD?
- 3). what is the duties and responsibilities MRD Staff?
- 4). Write the Rules and Regulation of Birth and death Act?
- 5). Write brief note about Medico Legal Cases?

**Short answers**

**5 X 3 = 15 marks**

- 6).Define Court
- 7).Why made Corrigendum in MRD?
- 8) Which is the active and inactive records explain?
- 9).What is ICD ? Explain
- 10).What procedure following encase of Production of Medical Records in the Court?
- 11). Define Cognizable and Non Cognizable
- 12).Who is the public servant? Explain
- 13).What procedure following the release of Information of Medical Records in Third party?
- 14).Write the procedure of get the Age Estimation Certificate?
- 15).Wound Certificate?

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**Subject: Medical Record Sciences**

**Q P CODE: 5141**

**I. Short notes, answer any FOUR questions.**

**4 X 5 = 20 marks**

- 1). Briefly explain history of Medical Records?
- 2). How to organize Admitting service, Outpatient and EMS?
- 3). Write the Values of Medical Records?
- 4). what procedure following the Forms control programme?
- 5). How to form the Medical Records Committee? Write function

**II. Short answers**

**10 X 3 = 30 marks**

- 6). Which furniture required in MRD?
- 7). Write note about Qualitative of Medical Records?
- 8). Write the contents of Death Register
- 9). List of Assembling Forms? Including special forms
- 10). How to collect daily Census form the ward?
- 11). Organization flow chart of MRD Personnel
- 12). OP Registration
- 13). MRD Numbering system
- 14). How long preserve the Medical Records ? Explain
- 15). Physician /Surgeon Index Card

**Subject: Medical Record Sciences**

**Q P CODE: 5142**

**I. Short notes, answer any FOUR questions.**

**4 X 5 = 20 marks**

- 1). Write principles of Management of MRD?
- 2). What is Summons? What are the procedures should be followed to response the same.
- 3). Write the formalities of get the Medical Certificates?
- 4). What is International Classification of Disease? Explain
- 5). Write brief note about the Medico Legal Aspect?

**Short answers**

**5 X 3 = 15 marks**

- 6). Workman's Compensation Act
- 7). Decree
- 8). Explain unit numbering System
- 9). Role of Medical Records in Accreditation?
- 10). RTI
- 11). Judge
- 12). What is Fact ?
- 13). Explain types of Indices?
- 14). What you mean by Burden of proof?
- 15). write the Contents of OP Chit



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**Subject: Medical Record Sciences**

**Q P CODE: 5141**

**I. Short notes, answer any FOUR questions.**

**4 X 5 = 20 marks**

- 1).What is the values of Medical Records to the Doctor, Patient and Hospital?
- 2).Why Maintaining of inventory Register in the Hospital and MRD?
- 3). Write Function of Mortality and Morbidity Committee?
- 4). Purpose and Uses of medical Records?
- 5). Write the notes about Deficiency Check system and Assembling?

**II. Short answers**

**10 X 3 = 30 marks**

- 6).Write medical records numbering system?
- 7).What you mean by forms control programme?
- 8).Requirement of MRD Equipments and Furniture at the time of MRD new establishment?
- 9).Write brief note about the Admitting Office
- 10).Reception Counter
- 11). Forms Stock Register
- 12).Quantitative Analysis of Medical Records?
- 13).Write the types of Filing system used in Medical Record?
- 14).Duties and Responsibilities in Medical Records Technicians?
- 15).Operation Index card

**Subject: Medical Record Sciences**

**Q P CODE: 5142**

**I. Short notes, answer any FOUR questions.**

**4 X 5 = 20 marks**

- 1).Write brief note about the Complete Record Control?
- 2).what procedure following the Issue of Birth and death Certificates?
- 3). Medical Records is a legal document. How it prove?
- 4). Write the office procedure and Maintenance of MRD letters?
- 5). What Procedure following the Name Correction in case of Mistake the patient name?

**Short answers**

**5 X 3 = 15 marks**

- 6).Charge Sheet
- 7).Function for EMS
- 8).Plaintiff
- 9).Health Information Management
- 10). Decree Holder
- 11). Index Cards
- 12).FIR
- 13).Sexual offense
- 14).What procedure follow to provide the Health information to the patients?
- 15).What is will? explain

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**Subject: Medical Record Sciences**

**Q P CODE: 5141**

**I. Short notes, answer any FOUR questions.**

**4 X 5 = 20 marks**

- 1).Write Notes of Qualitative and Quantitative Analysis of Medical Records?
- 2).Function of Mortality and Morbidity Committee? How to form the M&MC
- 3). Organization flow chart of Medical Records in MRD? Explain each section Functions in the MRD?
- 4). Write brief note about Hospital including MRD?
- 5). Write the list of Basic Medical Records forms and Special medical Records forms? explain

**II. Short answers**

**10 X 3 = 30 marks**

- 6).Write the contents of Forms Stock Register?
- 7).Which is special Medical Records forms? Explain
- 8).Mid night Census
- 9).Role of Medical Records in Mortality and Morbidity meeting?
- 10).Diagnostic index card
- 11). Physician Index
- 12).Retention period and procedure of Medical Records forms
- 13).Birth Register
- 14).What is Unique Hospital Identification Number? Explain
- 15).Write the retention schedule of Medical Records?

**Subject: Medical Record Sciences**

**Q P CODE: 5142**

**I. Short notes, answer any FOUR questions.**

**4 X 5 = 20 marks**

- 1).What types of Certificates issued in MRD? What type procedure followed each and every certificate explain?
- 2).Write notes about the IPC? With 5 definitions.
- 3). What you mean by warrant? Explain
- 4). Briefly explain What is ICD?
- 5). Write the function of MRD?

**Short answers**

**5 X 3 = 15 marks**

- 6).What is Estoppel? Explain
- 7).Tracer Card
- 8).Personal and Impersonal Documents
- 9).Complete and Incomplete Records Control
- 10).Summon to production of Records.
- 11). Discharge Analysis
- 12).How to maintain Hospital Statistics in the MRD?
- 13).Write the Contents of Issuing Register/Loan Register?
- 14).Explain the Criminal Procedure code 61,62,63?
- 15).What Procedure follow in the RTI? At get the Medical Records Information.

PARAMEDICAL BOARD, BENGALURU  
Medical Records Technology

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Max Marks:100

**GENERAL INSTRUCTIONS:**

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**Subject: Anatomy**

**Q P CODE: 5143**

**I. Short notes, answer any TWO questions.**

**2 X 5 = 10 marks**

1. Classify joints with examples
2. Write about the anatomy of heart
3. Describe the female reproductive organs

**II. Short answers**

**10 X 3 = 30 marks**

4. Name the parts of young long bone
5. Name the salivary glands
6. Name chambers of heart
7. Name the organs of special senses
8. Name the parts of small intestine
9. Definition of anatomical position
10. Name the parts of brain stem
11. Name the structures in the hilum of kidney
12. Name paranasal air sinuses
13. Name the endocrine organs

**Subject: General Physiology**

**Q P CODE: 5144**

**I. Short notes, answer any THREE questions.**

**3 X 5 = 15 marks**

1. Draw a neat diagram of reflex arc how its action brought about.
2. How is autonomic nervous system organized?
3. Functions of saliva
4. Structure of cardiac muscle.

**II. Short answers**

**5 X 3 = 15 marks**

5. Define heart rate, Factors which control heart rate
6. How are the respiratory gases exchange and transported.
7. Name of the volumes of measured by spirometry
8. Define hypoxic and cyanosis
9. Name the abnormal patterns of breathing.

**Subject: Pathology & Micro.**

**Q P CODE: 5145**

**I. Short notes, answer any THREE questions.**

**3 X 5 = 15 marks**

1. Write in detail about healing fracture.
2. Write about tuberculosis of spine.
3. Tuberculosis of lung.
4. Enumerate 10 Parasites with organs involved.

**II. Short answers**

**5 X 3 = 15 marks**

5. Obesity
6. Rheumatic Heart Disease
7. Emphysema
8. Carcinoma breast
9. Write in brief about culture and sensitivity

PARAMEDICAL BOARD, BENGALURU  
Medical Records Technology

Time: 3.00 HRS

Max Marks:100

**GENERAL INSTRUCTIONS:**

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Anatomy

Q P CODE: 5143

**I. Short notes, answer any TWO questions. 2 X 5 = 10 marks**

1. Write detailed anatomy of stomach
2. Write about the anatomy of brain
3. Describe the male reproductive organs

**II. Short answers 10 X 3 = 30 marks**

4. Classify the nervous system
5. Name structures in the mediastinum
6. Name chambers of heart
7. Name any 6 arteries in the body
8. Name the parts of male urethra
9. Definition of anterior, superior and medial
10. Name the parts of colon
11. Name the structures in the porta hepatis
12. Name cartilages of larynx
13. Name the lymphoid organs

Subject: General Physiology

Q P CODE: 5144

**I. Short notes, answer any THREE questions. 3 X 5 = 15 marks**

1. Define stroke volume. What are the factors controlling it?
2. How is saliva secreted? And what are its functions.
3. Mechanism of secretions of pancreas.
4. Name the movements of gastro intestinal tract.

**II. Short answers 5 X 3 = 15 marks**

5. How is respiration regulated chemically?
6. Name the volume and capacities of lung.
7. Name the types of hypoxia.
8. How is artificial respiration brought about? Name the methods
9. What is secreted how is bile secreted. What are the functions

Subject: Pathology & Micro.

Q P CODE: 5145

**I. Short notes, answer any THREE questions. 3 X 5 = 15 marks**

1. Define and write about types of Osteomyelitis.
2. Write about tuberculosis of bone.
3. Emphysema
4. Fracture healing

**II. Short answers 5 X 3 = 15 marks**

5. Thrombosis
6. Osteoarthritis
7. Hydronephrosis
8. Fatty Liver
9. Obesity

PARAMEDICAL BOARD, BENGALURU  
Medical Records Technology

Time: 3.00 HRS

Max Marks:100

**GENERAL INSTRUCTIONS:**

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

**Subject: Anatomy**

**Q P CODE: 5143**

**I. Short notes, answer any TWO questions.**

**2 X 5 = 10 marks**

1. Write detailed anatomy of caecum and appendix
2. Write about the anatomy of liver
3. Describe the male shoulder joint

**II. Short answers**

**10 X 3 = 30 marks**

4. Pituitary gland
5. Name any 6 cranial nerves
6. Name chambers of heart
7. Name the male reproductive organs
8. Name any 6 veins in the body
9. Definition of posterior, proximal and inferior
10. Give examples for simple squamous epithelium
11. Name the parts of pharynx
12. Mention the functions of Sympathetic nervous system
13. Name any 6 attachments to femur

**Subject: General Physiology**

**Q P CODE: 5144**

**I. Short notes, answer any THREE questions.**

**3 X 5 = 15 marks**

1. Name the types of muscle and their function.
2. How is the skeletal muscle contraction brought about?
3. Difference between sympathetic and parasympathetic nerves system.
4. Name the superficial reflexes.

**II. Short answers**

**5 X 3 = 15 marks**

5. Define CPR
6. What is oxymetry
7. What are the stages of shock.
8. Write about cerebral blood flow
9. Name the limb leads of ECG

**Subject: Pathology & Micro.**

**Q P CODE: 5145**

**I. Short notes, answer any THREE questions.**

**3 X 5 = 15 marks**

1. Write the differences between benign and malignant tumours.
2. Pleural effusion causes and findings.
3. Myocardial infarction
4. Tuberculosis of lung

**II. Short answers**

**5 X 3 = 15 marks**

5. Embolism
6. Hydronephrosis
7. Gall stones
8. Carcinoma breast
9. Enumerate 10 bacteria causing infection

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Max Marks:100

**GENERAL INSTRUCTIONS:**

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

**Subject: Anatomy**

**Q P CODE: 5143**

**I. Short notes, answer any TWO questions. 2 X 5 = 10 marks**

1. Describe the kidney
2. Write about the anatomy of liver
3. Describe the pancreas

**II. Short answers 10 X 3 = 30 marks**

4. Thyroid gland
5. Name the parts of fallopian tube
6. Name the ventricles of brain
7. Write about testis
8. Write about trachea
9. Definition of flexion, abduction and pronation
10. Give examples for simple columnar epithelium
11. Name muscles ear ossicles
12. Mention the functions of parasympathetic nervous system
13. Name the parts of hip bone

**Subject: General Physiology**

**Q P CODE: 5144**

**I. Short notes, answer any THREE questions. 3 X 5 = 15 marks**

1. Write about exchange and transport of respiration gastes
2. How is acid base balance maintained by kidneys?
3. What are the functions of male and female gonads?
4. Name the stages of menstruation

**II. Short answers 5 X 3 = 15 marks**

5. How is the temperature regulated?
6. What are the stress responses?
7. What are changes seen in a female during pregnancy
8. Name the posterior pituitary hormones.
9. During sweating how is fluid and electrolyte balance maintained

**Subject: Pathology & Micro.**

**Q P CODE: 5145**

**I. Short notes, answer any THREE questions. 3 X 5 = 15 marks**

1. Pneumonia
2. Tuberculosis of Spine
3. Fracture healing
4. Gall stones

**II. Short answers 5 X 3 = 15 marks**

5. Callus
6. Obesity
7. Fibroadenoma breast
8. Name 10 virus causing Human diseases
9. Primary Complex

PARAMEDICAL BOARD, BENGALURU  
Medical Records Technology

Time: 3.00 HRS

Max Marks:100

**GENERAL INSTRUCTIONS:**

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

**Subject: Anatomy**

**Q P CODE: 5143**

**I. Short notes, answer any TWO questions.**

**2 X 5 = 10 marks**

1. Describe the right lung
2. Write about the anatomy of male urethra
3. Describe the knee joint

**II. Short answers**

**10 X 3 = 30 marks**

4. Duodenum
5. Name the openings in diaphragm
6. Name the ventricles of brain
7. Write about adrenal glands
8. Write about cerebellum
9. Definition of extension, adduction and supination
10. Give examples for simple cuboidal epithelium
11. Name the parts of gall bladder
12. Mention the differences between sympathetic and parasympathetic nervous system
13. Mention the functions of tongue

**Subject: General Physiology**

**Q P CODE: 5144**

**I. Short notes, answer any THREE questions.**

**3 X 5 = 15 marks**

1. What is Hypothyroidism?
2. What is the function of parathyroid hormone?
3. How is urine formed generally?
4. Name the types of sensory receptors.

**II. Short answers**

**5 X 3 = 15 marks**

5. Name the parts of gastrointestinal tract
6. Difference between cardiac and skeletal muscle.
7. Composition of saliva.
8. Functions of bile
9. Characteristics of cardiac muscle.

**Subject: Pathology & Micro.**

**Q P CODE: 5145**

**I. Short notes, answer any THREE questions.**

**3 X 5 = 15 marks**

1. Define necrosis and write about types.
2. Tuberculosis of bone
3. Difference between Benign and Malignant tumours
4. Osteoarthritis

**II. Short answers**

**5 X 3 = 15 marks**

5. Callus
6. Enumerate fungi causing human infections.
7. Gram staining
8. Marasmus
9. Renal Calculi

PARAMEDICAL BOARD, BENGALURU  
Medical Records Technology

Time: 3.00 HRS

Max Marks:100

**GENERAL INSTRUCTIONS:**

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

**Subject: Anatomy**

**Q P CODE: 5143**

**I. Short notes, answer any TWO questions. 2 X 5 = 10 marks**

1. Heart.
2. Kidney.
3. Draw and label Diagram of Female Reproductive System.

**II. Short answers 10 X 3 = 30 marks**

4. Movements of Shoulder Girdle.
5. Functions of Cerebellum.
6. Retinaculum.
7. Name Salivary Glands.
8. Hilum of Lungs (Structures).
9. Positions of Appendix.
10. Linea Aspera.
11. Draw Diagram of Histology of Hyaline Cartilage.
12. Name Ear Ossicles.
13. Anal Canal.

**Subject: General Physiology**

**Q P CODE: 5144**

**I. Short notes, answer any THREE questions. 3 X 5 = 15 marks**

1. Define Anemia. Describe different types of Anemia
2. Composition and functions of bile
3. Renal and non-renal function of kidney
4. Composition and function of CSF

**II. Short answers 5 X 3 = 15 marks**

5. Define cardiac output and stroke volume. Give their normal values
6. Name different artificial respiration methods
7. Pregnancy tests
8. Diffusion
9. List pancreatic hormones

**Subject: Pathology & Micro.**

**Q P CODE: 5145**

**I. Short notes, answer any THREE questions. 3 X 5 = 15 marks**

1. Define edema. Name the types with examples.
2. Define neoplasia. Write the difference between benign and malignant lesions.
3. Name the causes for Ricketts and write the clinical features.
4. Write in detail stages of fracture healing and a note on factors affecting it

**II. Short answers 5 X 3 = 15 marks**

5. Emphysema
6. Nasal polyp
7. Renal calculus
8. Achalasia cardia
9. Fatty liver



PARAMEDICAL BOARD, BENGALURU  
Medical Records Technology

Time: 3.00 HRS

Max Marks:100

**GENERAL INSTRUCTIONS:**

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Anatomy

Q P CODE: 5143

**I. Short notes, answer any TWO questions. 2 X 5 = 10 marks**

1. Synovial Joints.
2. Lung.
3. Morphology of hHearty / Diagram.

**II. Short answers 10 X 3 = 30 marks**

4. Functions of Epithelium.
5. Hormones Secreted by Thyroid Gland.
6. Name ventricles of Brain.
7. Sesamoid Bones.
8. Types of Neurons.
9. Openings in Diaphragm.
10. Draw and label diagram of Histology of Skin.
11. Types of long bones.
12. Branches of Aorta.
13. Functions of Gall – Bladder.

Subject: General Physiology

Q P CODE: 5144

**I. Short notes, answer any THREE questions. 3 X 5 = 15 marks**

1. Hypothalamic hormones and their functions
2. Describe in detail steps of spermatogenesis
3. Indications and contraindications of blood transfusion
4. Neuromuscular junctions

**II. Short answers 5 X 3 = 15 marks**

5. Draw a neat diagram of ECG showing different waves and intervals
6. Define apnea, dyspnea and tachypnea
7. Define GFR and give its normal value
8. Audiometry
9. Functions of skin

Subject: Pathology & Micro.

Q P CODE: 5145

**I. Short notes, answer any THREE questions. 3 X 5 = 15 marks**

1. Define thrombosis and write in detail about its stages.
2. Define metastasis and add a note on routes of spread with examples.
3. Discuss in detail about protein energy malnutrition.
4. Discuss in detail about osteoarthritis.

**II. Short answers 5 X 3 = 15 marks**

5. Pneumonia
6. Sinusitis
7. Hydronephrosis
8. Barret'soesophagus
9. Cirrhosis

PARAMEDICAL BOARD, BENGALURU  
Medical Records Technology

Time: 3.00 HRS

Max Marks:100

**GENERAL INSTRUCTIONS:**

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Anatomy

Q P CODE: 5143

**I. Short notes, answer any TWO questions. 2 X 5 = 10 marks**

1. Structure of Neuron.
2. Thyroid Gland.
3. Shoulder joint.

**II. Short answers 10 X 3 = 30 marks**

4. Name hamstring Muscles.
5. Parts of Brain stem.
6. Draw and label diagram of Histology of Pancreas.
7. Biceps brachii Muscle.
8. Nutrient Artery.
9. Functions of Spleen.
10. Types of Epithelium.
11. Movements of Hip Joint.
12. Hormones secreted by Pituitary Gland.
13. Aponeurosis.

Subject: General Physiology

Q P CODE: 5144

**I. Short notes, answer any THREE questions. 3 X 5 = 15 marks**

1. Composition and functions of pancreatic juice
2. Renal function tests
3. Structure and functions of middle ear
4. Conducting system of heart

**II. Short answers 5 X 3 = 15 marks**

5. Define Bleeding Time, Clotting Time and give their normal values
6. List the hormones of Pituitary gland
7. Different body fluid compartments
8. Types of sensory receptors
9. Functions of Surfactant

Subject: Pathology & Micro.

Q P CODE: 5145

**I. Short notes, answer any THREE questions. 3 X 5 = 15 marks**

1. Classify ovarian tumors.
2. Define cirrhosis and add a note on its stages of development.
3. Renal tumors.
4. Tumors of bone

**II. Short answers 5 X 3 = 15 marks**

5. Fibroadenoma
6. Goitre
7. Tuberculosis- Lung
8. Involucrum
9. Scurvy

PARAMEDICAL BOARD, BENGALURU  
Medical Records Technology

Time: 3.00 HRS

Max Marks:100

**GENERAL INSTRUCTIONS:**

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Anatomy

Q P CODE: 5143

**I. Short notes, answer any TWO questions.**

2 X 5 = 10 marks

1. Tongue.
2. Histology of Spleen.
3. Uterus.

**II. Short answers**

10 X 3 = 30 marks

4. Functions of Spinal cord.
5. Deltoid Muscle.
6. Name parts of Brain Sem.
7. Functions of Kidney.
8. Secretions of Pancreas.
9. Histology of Thymus (Diagra Only).
10. Functions of Gall bladder.
11. Name Hamstring muscles.
12. Types of Cartilage.
13. Functions of Spleen..

Subject: General Physiology

Q P CODE: 5144

**I. Short notes, answer any THREE questions.**

3 X 5 = 15 marks

1. Different taste sensations and different taste buds involved
2. Temperature regulations
3. Composition and functions of plasma proteins
4. Functions of Testosterone

**II. Short answers**

5 X 3 = 15 marks

5. Types of Neuroglial cells
6. Functions of saliva
7. Define HR & BP. give their normal values
8. Functions of respiratory system
9. Define GFR and give its normal value

Subject: Pathology & Micro.

Q P CODE: 5145

**I. Short notes, answer any THREE questions.**

3 X 5 = 15 marks

1. Classify breast tumors.
2. Rheumatic heart disease.
3. Gastric ulcer.
4. Cholelithiasis.

**II. Short answers**

5 X 3 = 15 marks

5. Embolism
6. Sarcoma
7. Obesity
8. Osteomyelitis
9. Pleural effusion

PARAMEDICAL BOARD, BENGALURU  
Medical Records Technology

Time: 3.00 HRS

Max Marks:100

**GENERAL INSTRUCTIONS:**

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Anatomy

Q P CODE: 5143

**I. Short notes, answer any TWO questions.**

2 X 5 = 10 marks

1. Hip Joint.
2. Testis.
3. Stomach.

**II. Short answers**

10 X 3 = 30 marks

4. Pericardium.
5. Hormones secreted by Suprarenal Gland.
6. Functions of Liver.
7. Nutrient Artery
8. Functions of CSF.
9. Contents of intercostals Spaces.
10. Name Muscles of Tongue.
11. Draw and label Diagram of Histology of Spleen.
12. Smooth Muscle.
13. Name Three Cranial Nerves.

Subject: General Physiology

Q P CODE: 5144

**I. Short notes, answer any THREE questions.**

3 X 5 = 15 marks

1. Mechanism of transport across cell membrane
2. Define Cardiac Output&Explain factors affecting Cardiac Output
- 3.Errors of refraction and their correction
4. Define hypoxia.Describe different types of hypoxia

**II. Short answers**

5 X 3 = 15 marks

5. Contraceptive methods in females
6. Functions of skin
7. Normal constituents of urine
8. Functions of CSF
9. Anticoagulants

Subject: Pathology & Micro.

Q P CODE: 5145

**I. Short notes, answer any THREE questions.**

3 X 5 = 15 marks

1. Alcoholic liver disease
- 2.Toxic goiter
- 3.Cardiomyopathy
- 4.Gangrene

**II. Short answers**

5 X 3 = 15 marks

5. Pyogenic abscess
6. Osteomalacia
7. Hyperplasia
8. Sequestrum
9. Name any 3 thyroid carcinomas

PARAMEDICAL BOARD, BENGALURU  
Medical Records Technology

Time: 3.00 HRS

Max Marks:100

**GENERAL INSTRUCTIONS:**

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

**Subject: Anatomy**

**Q P CODE: 5143**

**I. Short notes, answer any TWO questions.**

**2 X 5 = 10 marks**

1. Heart
2. Classification of joints with examples
3. Stomach

**II. Short answers**

**10 X 3 = 30 marks**

4. Epithelium
5. Parts of a young long bone
6. Name three bones of skull
7. Lymph Node
8. Ureter
9. Name three salivary glands
10. Parts of fallopian tube
11. Portal Vein
12. Hormones of thyroid gland
13. Paranasal air sinuses

**Subject: General Physiology**

**Q P CODE: 5144**

**I. Short notes, answer any THREE questions.**

**3 X 5 = 15 marks**

1. Describe the various methods of transport across the cell membrane.
2. What is erythropoiesis? Describe the erythropoiesis.
3. Define and give normal values of vital capacity and its clinical significance.
4. Functions of saliva.

**II. Short answers**

**5 X 3 = 15 marks**

5. Functions of HCl in stomach.
6. Differentiate between rods and cones.
7. Name the hormones secreted from anterior pituitary.
8. waves of ECG.
9. Classify reflexes

**Subject: Pathology & Micro.**

**Q P CODE: 5145**

**I. Short notes, answer any THREE questions.**

**3 X 5 = 15 marks**

1. Define inflammation. Write types with examples.
2. What is pneumonia. Write etiology & stages of pneumonia.
3. Write differentiation between benign & malignant tumor.
4. What is Marasmus. Write clinical features.

**II. Short answers**

**5 X 3 = 15 marks**

5. Define hyperplasia. Give 3 examples.
6. Types of gangrene with examples.
7. Morphology of tuberculosis of lung.
8. Gall stones-types.
9. Name different types of carcinoma breast.

PARAMEDICAL BOARD, BENGALURU  
Medical Records Technology

Time: 3.00 HRS

Max Marks:100

**GENERAL INSTRUCTIONS:**

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

**Subject: Anatomy**

**Q P CODE: 5143**

**I. Short notes, answer any TWO questions.**

**2 X 5 = 10 marks**

1. Lungs
2. Synovial joint
3. Kidneys

**II. Short answers**

**10 X 3 = 30 marks**

4. Hyaline cartilage
5. Organs of special senses
6. Name muscles of larynx
7. Adrenal gland
8. Name three cranial Nerves
9. Name three arteries of Upper limb
10. Tonsil
11. Name three Nerves of lower limb
12. Name muscles of tongue
13. Parts of Humerus

**Subject: General Physiology**

**Q P CODE: 5144**

**I. Short notes, answer any THREE questions.**

**3 X 5 = 15 marks**

1. What is the difference between diffusion and osmosis? Give an example for each.
2. Explain the basis for classification of blood groups. Describe the Rh blood group
3. What is ECG? Enumerate the various ECG leads with a suitable diagram.
4. Name the posterior pituitary hormones and their functions.

**II. Short answers**

**5 X 3 = 15 marks**

5. What is the ICF volume and ECF volume
6. Name the contractile proteins present in muscle.
7. Functions of lymphocytes.
8. Deglutition apnoea.
9. How are heart sounds produced?

**Subject: Pathology & Micro.**

**Q P CODE: 5145**

**I. Short notes, answer any THREE questions.**

**3 X 5 = 15 marks**

1. Define necrosis. Write types of necrosis with examples.
2. Write etiology of cell injury. Add a note on irreversible cell injury.
3. Mention different types of carcinoma breast. Add a note on morphology of carcinoma breast.

4. Describe Grade & microscopy of Emphysema.

**II. Short answers**

**5 X 3 = 15 marks**

5. Types of carcinoma thyroid.
6. Tuberculosis of spine
7. Fatty liver-causes
8. Sequestrum
9. Gastric ulcer-morphology.

PARAMEDICAL BOARD, BENGALURU  
Medical Records Technology

Time: 3.00 HRS

Max Marks:100

**GENERAL INSTRUCTIONS:**

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Anatomy

Q P CODE: 5143

- I. Short notes, answer any TWO questions. 2 X 5 = 10 marks**
1. Thyroid gland
  2. Types of muscles
  3. Uterus
- II. Short answers 10 X 3 = 30 marks**
4. Name 3 arteries of lower limb
  5. Name salivary glands
  6. Trachea
  7. Mediastinum
  8. Parts of small intestine
  9. Transverse section of spinal cord
  10. Name 3 cranial Nerves
  11. Gall bladder
  12. Hormone of Pituitary gland
  13. Stratified Epithelium

Subject: General Physiology

Q P CODE: 5144

- I. Short notes, answer any THREE questions. 3 X 5 = 15 marks**
1. Describe the errors of refraction and their correction with the help of diagram.
  2. Functions of liver.
  3. Define arterial blood pressure give its normal values.
  4. Write briefly the importance of blood groups.
- II. Short answers 5 X 3 = 15 marks**
5. waves of ECG.
  6. Surfactant
  7. Name Coagulation factors.
  8. What is motor unit
  9. What is the difference between of diffusion and osmosis?

Subject: Pathology & Micro.

Q P CODE: 5145

- I. Short notes, answer any THREE questions. 3 X 5 = 15 marks**
1. Write etiology & pathogenesis of carcinoma cervix.
  2. What is granuloma. Name granulomatous diseases. Write morphology of any granulomatous disease.
  3. What is Fibroadenoma. Write clinical features, morphology of same.
  4. What is neoplasia. Write difference between benign & malignant neoplasia.
- II. Short answers 5 X 3 = 15 marks**
5. Teratoma ovary
  6. Thyrotoxicosis- causes
  7. Types of renal stones.
  8. Wound healing by secondary intension.
  9. Rickets-clinical features.

PARAMEDICAL BOARD, BENGALURU  
Medical Records Technology

Time: 3.00 HRS

Max Marks:100

**GENERAL INSTRUCTIONS:**

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Anatomy

Q P CODE: 5143

- I. Short notes, answer any TWO questions. 2 X 5 = 10 marks**
1. Mammary gland
  2. Connective tissue
  3. Lungs
- II. Short answers 10 X 3 = 30 marks**
4. Neuron
  5. Diaphragm
  6. Hormones of Pancreas
  7. Functions of Liver
  8. Parts of large intestine
  9. Parts of brain stem
  10. Appendix
  11. Name 3 muscles of upper limb
  12. Salivary glands
  13. Parts of stomach

Subject: General Physiology

Q P CODE: 5144

- III. Short notes, answer any THREE questions. 3 X 5 = 15 marks**
1. Explain active transport across cell membrane with examples.
  2. Classify blood groups Enumerate the dangers of blood transfusion.
  3. Define arterial blood pressure. Discuss the factors regulating the blood pressure.
  4. Describe the spermatogenesis and list the factors regulating it.
- IV. Short answers 5 X 3 = 15 marks**
5. Enumerate various structures present in a cell. Give their functions.
  6. Muscle proteins & their functions
  7. Classify leukocytes
  8. Dead space
  9. Enumerate the enzymes causing protein digestion

Subject: Pathology & Micro.

Q P CODE: 5145

- I. Short notes, answer any THREE questions. 3 X 5 = 15 marks**
1. What is embolism write types of embolism .Add a note on complications of embolism.
  2. Write etiopathogenesis of carcinoma lung. Add a note on types of carcinoma lung.
  3. Write in detail regarding fracture healing.
  4. Write etiopathogenesis of tuberculosis of lung. Add a note on Ghons focus.
- II. Short answers 5 X 3 = 15 marks**
5. Types of necrosis with examples.
  6. Myocardial infarction-causes
  7. Types of sinusitis with examples
  8. Scurvy.
  9. Clinical features of Rheumatoid arthritis.



PARAMEDICAL BOARD, BENGALURU  
Medical Records Technology

Time: 3.00 HRS

Max Marks:100

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Anatomy

Q P CODE: 5143

- I. Short notes, answer any TWO questions. 2 X 5 = 10 marks**
1. Pituitary gland
  2. Types of cartilage
  3. Liver
- II. Short answers 10 X 3 = 30 marks**
4. Parts of a young long bone
  5. Histology of spleen
  6. Synovial joint
  7. Parts of uterus
  8. Name of Paranasal air sinuses
  9. Coats of eyeball
  10. Parts of small intestine
  11. Muscles of Larynx
  12. Arteries of Head and Neck
  13. Cardiac muscles

Subject: General Physiology

Q P CODE: 5144

- I. Short notes, answer any THREE questions. 3 X 5 = 15 marks**
1. Describe the steps in the biosynthesis, storage and release of thyroid hormones
  2. Describe the composition, functions of pancreatic juice.
  3. Define pulse. Give its normal value and What is the normal character of pulse.
  4. Describe steps in hemoglobin synthesis add a note on disorders of hemoglobin synthesis.
- II. Short answers 5 X 3 = 15 marks**
5. List the steps of spermatogenesis.
  6. Name functions of rods and cones.
  7. List six functions of kidneys.
  8. Differentiate between local and action potential.
  9. Classify body fluid compartments. Give their normal values.

Subject: Pathology & Micro.

Q P CODE: 5145

- I. Short notes, answer any THREE questions. 3 X 5 = 15 marks**
1. Write etiology & clinical features of Rickets.
  2. Define neoplasia. Write differences between benign & malignant tumors.
  3. Write etiopathogenesis of Osteomyelitis. Add a note on complications of Osteomyelitis.
  4. Write etiology of cirrhosis. Add a note on complications
- II. Short answers 5 X 3 = 15 marks**
5. Ghons complex
  6. Types of gangrene -with examples
  7. Cold abscess
  8. Obesity -causes
  9. Types of aneurysms of aorta

**PARAMEDICAL BOARD, BENGALURU**  
**Medical Records Technology**

**Time: 3.00 HRS**

**Max Marks:100**

**GENERAL INSTRUCTIONS:**

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

**Subject: Hospital and Biostatistics**

**Q P CODE: 5146**

**I. Short notes, answer any FOUR questions.**

**4 X 5 = 20 marks**

1. Define data? Explain methods of data collection?
2. What is measures of central tendency and explain its measures?
3. What is sampling? Explain scope of sampling.
4. What is correlation and regression?
5. Characteristics of standard normal curve

**II. Short answers**

**10 X 3 = 30 marks**

6. Uses of biostatistics.
7. Define variable with example
8. Advantage of Primary data
9. Characteristics of good table
10. Standard deviation
11. Range and Quartile deviation
12. Pie Chart
13. Mention techniques of sampling
14. Probability
15. Sample and Population

**Subject: Hospital and Biostatistics**

**Q P CODE: 5147**

**I. Short notes, answer any FOUR questions.**

**4 X 5 = 20 marks**

1. Define Health information system and mention the sources of health information system.
2. Define Vital statistics and write down the uses of vital statistics
3. Define Morbidity and explain two indicators.
4. Crude Death rate and infant Mortality rate
5. Explain about Census

**II. Short answers**

**10 X 3 = 30 marks**

6. Crude birth rate.
7. Age Specific Fertility rate
8. In a town with a mid-year population in the reproductive age group of 170,000, there were 1,100 live births in a given year. Calculate general fertility rate.
9. Case fatality rate
10. Bed occupancy rate
11. Bed turnover ratio
12. Anaesthesia death rate
13. Net death rate
14. Average length of stay
15. Gross death rate

**PARAMEDICAL BOARD, BENGALURU**  
**Medical Records Technology**

**Time: 3.00 HRS**

**Max Marks:100**

**GENERAL INSTRUCTIONS:**

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

**Subject: Hospital and Biostatistics**

**Q P CODE: 5146**

**I. Short notes, answer any FOUR questions.**

**4 X 5 = 20 marks**

1. Calculate Range, Mean deviation and Standard deviation of 22,24,18,36,27,42,28 .
2. Write down merits and demerits of sampling?
3. Explain Mean and write down its merits and demerits.
4. Explain Pearson's coefficient of correlation
5. Define Classification and write down its types with example

**II. Short answers**

**10 X 3 = 30 marks**

6. Define qualitative data with example
7. Define variable with example
8. Advantage of Primary data
9. General format of table
10. Median and Mode
11. Range and Quartile deviation
12. Histogram
13. Simple random sampling
14. Probability
15. Sample and Population

**Subject: Hospital and Biostatistics**

**Q P CODE: 5147**

**I. Short notes, answer any FOUR questions.**

**4 X 5 = 20 marks**

1. Explain civil registration system.
2. Define Morbidity and explain two indicators
3. Define Mortality and name the different types of mortality rates.
4. Crude birth rate and general fertility rate
5. Define Hospital statistics and write down the uses of hospital statistics.

**II. Short answers**

**10 X 3 = 30 marks**

6. Define Admission and Discharge.
7. Infant mortality rate
8. In a town with a mid-year population in the reproductive age group of 170,000, there were 1,100 live births in a given year. Calculate general fertility rate.
9. Caesarean section rate
10. Bed occupancy rate
11. Bed turnover ratio
12. Anaesthesia death rate
13. Net death rate
14. Average length of stay
15. Maternal mortality rate

**PARAMEDICAL BOARD, BENGALURU**  
**Medical Records Technology**

**Time: 3.00 HRS**

**Max Marks:100**

**GENERAL INSTRUCTIONS:**

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

**Subject: Hospital and Biostatistics**

**Q P CODE: 5146**

**I. Short notes, answer any FOUR questions.**

**4 X 5 = 20 marks**

1. Define sampling and explain simple random sampling.
2. The following are the data on Systolic blood pressure (mmHg) of seven subjects are 125,133,130,128,136,130,135 Calculate Mean ,Median and Mode.
3. Explain standard deviation and write down its merits and demerits.
4. Advantages and Disadvantages of diagrammatic representation of data
5. Define Classification and write down its types with example

**II. Short answers**

**10 X 3 = 30 marks**

6. Define quantitative data with example
7. Define primary data and mention its methods
8. Tabulation of data
9. Cluster random sampling
10. Median and Mode
11. Range and Quartile deviation
12. Histogram
13. standard normal curve
14. variable and its types
15. Sample and Population

**Subject: Hospital and Biostatistics**

**Q P CODE: 5147**

**I. Short notes, answer any FOUR questions.**

**4 X 5 = 20 marks**

1. Define Health information system and write down details about Sample registration system.
2. Define Vital statistics and write down the uses of vital statistics
3. Define Mortality and name the different types of mortality rates.
4. Crude birth rate and general fertility rate
5. Notification of diseases

**II. Short answers**

**10 X 3 = 30 marks**

6. Define Admission and Discharge.
7. Age Specific Fertility rate
8. In a town with a mid-year population in the reproductive age group of 170,000, there were 1,100 live births in a given year. Calculate general fertility rate.
9. Autopsy rate
10. Bed occupancy rate
11. Bed turnover ratio
12. Anaesthesia death rate
13. Hospital death rate
14. Average length of stay
15. Gross death rate

**PARAMEDICAL BOARD, BENGALURU**  
**Medical Records Technology**

**Time: 3.00 HRS**

**Max Marks:100**

**GENERAL INSTRUCTIONS:**

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

**Subject: Hospital and Biostatistics**

**Q P CODE: 5146**

**I. Short notes, answer any FOUR questions.**

**4 X 5 = 20 marks**

1. Define Biostatistics and write down its uses in medical science.
2. The following are the data on Systolic blood pressure (mmHg) of seven subjects are 125,133,130,128,136,130,135 Calculate Mean ,Median and Mode.
3. Explain standard deviation and write down its merits and demerits.
4. Explain about Bar diagram.
5. Define Classification and write down its types with example

**II. Short answers**

**10 X 3 = 30 marks**

6. Define quantitative data with example
7. Define primary data and mention its methods
8. Frequency distribution
9. systematic random sampling
10. Median and Mode
11. Range and Quartile deviation
12. Histogram
13. standard normal curve
14. variable and its types
15. Sample and Population

**Subject: Hospital and Biostatistics**

**Q P CODE: 5147**

**I. Short notes, answer any FOUR questions.**

**4 X 5 = 20 marks**

1. Define Health information system and write down details about Sample registration system.
2. Disease registers and Record linkage
3. Define Mortality and name the different types of mortality rates.
4. Age Specific Fertility rate and general fertility rate
5. Notification of diseases

**II. Short answers**

**10 X 3 = 30 marks**

6. Define Sex ratio. In a town there were 109 female live births and 115 male live births in a given year. Compute the sex ratio at birth for that year.
7. In a town with a mid-year population of 70000, there were 2100 live births in a given year. Calculate the crude birth rate
8. Prevalence
9. Autopsy rate
10. Bed occupancy rate
11. Bed turnover ratio
12. Net reproduction rate
13. Hospital death rate
14. Average length of stay
15. Crude marriage rate

**PARAMEDICAL BOARD, BENGALURU**  
**Medical Records Technology**

**Time: 3.00 HRS**

**Max Marks:100**

**GENERAL INSTRUCTIONS:**

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

**Subject: Hospital and Biostatistics**

**Q P CODE: 5146**

**I. Short notes, answer any FOUR questions.**

**4 X 5 = 20 marks**

1. Explain measures of central tendency.
2. The following are the data on Systolic blood pressure (mmHg) of seven subjects are 125,133,130,128,136,123,135 .Calculate Mean deviation and standard deviation.
3. Explain sampling methods.
4. Explain about Bar diagram.
5. Define tabulation and write down its good characteristics of table.

**II. Short answers**

**10 X 3 = 30 marks**

6. Define quantitative variable with example
7. Define data and its types
8. Frequency distribution
9. Systematic random sampling
10. Mean deviation with formula
11. Range and Quartile deviation
12. Histogram
13. Standard normal curve
14. chi square test
15. Sample and Population

**Subject: Hospital and Biostatistics**

**Q P CODE: 5147**

**I. Short notes, answer any FOUR questions.**

**4 X 5 = 20 marks**

1. Define Health information system and write down details about Census.
2. Disease registers and Record linkage
3. Define Fertility and name the different types of Fertility rates.
4. Crude death rate and infant mortality rate
5. in a town with mid-year population of 200,000, there were 3000 births and 2450 deaths in a given year. Calculate crude birth rate and crude death rate

**II. Short answers**

**10 X 3 = 30 marks**

6. Define Sex ratio. In a town there were 109 female live births and 115 male live births in a given year. Compute the sex ratio at birth for that year.
7. Neonatal mortality rate
8. Prevalence
9. Bed Complement and Daily ward census
10. Foetal death ratio
11. Bed turnover ratio
12. Net reproduction rate
13. Hospital death rate
14. Average length of stay
15. Crude marriage rate

**PARAMEDICAL BOARD, BENGALURU**  
**Medical Records Technology**

**Time: 3.00 HRS**

**Max Marks:100**

**GENERAL INSTRUCTIONS:**

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**Subject: Hospital and Biostatistics**

**Q P CODE: 5146**

**I. Short notes, answer any FOUR questions.**

**4 X 5 = 20 marks**

1. Explain methods of primary data collection.
2. Calculate Mean deviation and standard deviation for 12.5, 24.5, 22.5, 34.5, 36.5, 35.5.
3. Explain sampling methods.
4. Explain about Bar diagram.
5. Define tabulation and write down its good characteristics of table.

**II. Short answers**

**10 X 3 = 30 marks**

6. Define qualitative variable with example
7. Define data and its types
8. Median with merits and demerits
9. Arithmetic mean with merits and demerits
10. Mean deviation with formula
11. Range and Quartile deviation
12. Frequency Polygon
13. Normal distribution
14. chi square test
15. Statistic and parameter

**Subject: Hospital and Biostatistics**

**Q P CODE: 5147**

**I. Short notes, answer any FOUR questions.**

**4 X 5 = 20 marks**

1. Define Health information system and write down details about Census.
2. Disease registers and Record linkage
3. Define Fertility and name the different types of Fertility rates.
4. International classification of diseases (ICD)
5. in a town with mid-year population of 200,000, there were 3000 births and 2450 deaths in a given year. Calculate crude birth rate and crude death rate

**II. Short answers**

**10 X 3 = 30 marks**

6. Infant mortality rate
7. Neonatal mortality rate
8. Prevalence
9. Bed Complement and Daily ward census
10. Foetal death ratio
11. Post operative death rate
12. Net reproduction rate
13. Hospital death rate
14. Net infection rate
15. Crude marriage rate

**PARAMEDICAL BOARD, BENGALURU**  
**Medical Records Technology**

**Time: 3.00 HRS**

**Max Marks:100**

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**Subject: Hospital and Biostatistics**

**Q P CODE: 5146**

**I. Short notes, answer any FOUR questions.**

**4 X 5 = 20 marks**

1. Define sampling and describe methods of sampling
2. Calculate Mean deviation and standard deviation for 12.5, 24.5, 22.5, 34.5, 36.5, 35.5.
3. Describe measures of central tendency.
4. Describe types of correlation
5. Define tabulation and write down its good characteristics of table.

**II. Short answers**

**10 X 3 = 30 marks**

6. Define variable and its types with example
7. Define data and its types
8. Mean deviation
9. Range and quartile deviation
10. Multiple Bar diagram
11. Qualitative classification with example
12. Frequency Polygon
13. class width and class interval
14. chi square test
15. Statistic and parameter

**Subject: Hospital and Biostatistics**

**Q P CODE: 5147**

**I. Short notes, answer any FOUR questions.**

**4 X 5 = 20 marks**

1. Define Health information system and write down details about Notification of diseases.
2. Disease registers and Record linkage
3. Define Fertility and name the different types of Fertility rates.
4. Explain about Birth and Death statistics
5. Define Average length of stay(ALOS). In a hospital 4 patients has admitted and stayed 6, 11, 5 and 8 days. Calculate average length of stay (ALOS)

**II. Short answers**

**10 X 3 = 30 marks**

6. Abortion rate and ratio
7. Hospital beds
8. Cause specific death rate
9. Types of hospital statistics
10. Foetal death ratio
11. Post operative death rate
12. Total fertility rate
13. Hospital death rate
14. Post operative complication rate
15. Crude marriage rate



**PARAMEDICAL BOARD, BENGALURU**  
**Medical Records Technology**

**Time: 3.00 HRS**

**Max Marks:100**

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**Subject: Hospital and Biostatistics**

**Q P CODE: 5146**

**I. Short notes, answer any FOUR questions.**

**4 X 5 = 20 marks**

1. Explain Measures of dispersion
2. Explain measures of Central tendency
3. Describe methods of graphs to present the data
4. Describe types of correlation
5. Define tabulation and write down its good characteristics of table.

**II. Short answers**

**10 X 3 = 30 marks**

6. Define variable and its types with example
7. Define data and its types
8. simple random sampling
9. stratified random sampling
10. Multiple Bar diagram
11. Qualitative classification with example
12. Frequency Polygon
13. class width and class interval
14. purposive sampling
15. Statistic and parameter

**Subject: Hospital and Biostatistics**

**Q P CODE: 5147**

**I. Short notes, answer any FOUR questions.**

**4 X 5 = 20 marks**

1. Define Health information system and write down details about Notification of diseases.
2. Disease registers and Record linkage
3. Define Fertility and name the different types of Fertility rates.
4. Define Bed occupancy rate. In a month of June 4000 inpatients days were served in a hospital with 150 beds. Calculate bed occupancy rate.
5. Define Average length of stay (ALOS). In a hospital 4 patients has admitted and stayed 6, 11, 5 and 8 days. Calculate average length of stay (ALOS)

**II. Short answers**

**10 X 3 = 30 marks**

6. Abortion rate and ratio
7. Hospital beds
8. Cause specific death rate
9. Types of hospital statistics
10. Foetal death ratio
11. Post operative death rate
12. Gross death rate
13. Hospital death rate
14. Post operative complication rate
15. Crude marriage rate

**PARAMEDICAL BOARD, BENGALURU**  
**Medical Records Technology**

**Time: 3.00 HRS**

**Max Marks:100**

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**Subject: Hospital and Biostatistics**

**Q P CODE: 5146**

**I. Short notes, answer any FOUR questions.**

**4 X 5 = 20 marks**

1. Explain Measures of dispersion
2. Tuberculin test reaction of 10 boys is given as 5, 5, 7, 7, 8, 8, 9, 10, 11, 12. Find mean and median
3. what are the advantages of diagrammatic representation of data
4. Describe types of correlation
5. Define tabulation and write down its good characteristics of table.

**II. Short answers**

**10 X 3 = 30 marks**

6. Mean with its merits
7. Median and Mode
8. Systematic random sampling
9. Multistage random sampling
10. Bar diagram
11. Quantitative classification with example
12. Frequency Polygon
13. Class width and class interval
14. Purposive sampling
15. Statistic and parameter

**Subject: Hospital and Biostatistics**

**Q P CODE: 5147**

**I. Short notes, answer any FOUR questions.**

**4 X 5 = 20 marks**

1. What are the outpatient statistical data collect in hospital.
2. Disease registers and Record linkage
3. Define Fertility and name the different types of Fertility rates.
4. Define outpatient visits. During the month of September the Wound Clinic was held 12 times and there were 287 visits. Calculate the number of visits per clinic session
5. Define hospital death rate. A hospital had a total of 15 deaths during the month of June. A total of 540 patients were discharged (including the 15 deaths) during the month. Calculate hospital death rate.

**II. Short answers**

**10 X 3 = 30 marks**

6. Bed Turnover Interval
7. Perinatal death rate
8. Cause specific death rate
9. Cesarean section rate
10. Foetal death ratio
11. Post operative death rate
12. Gross death rate
13. Hospital death rate
14. Post operative complication rate
15. Crude marriage rate

**PARAMEDICAL BOARD, BENGALURU**  
**Medical Records Technology**

**Time: 3.00 HRS**

**Max Marks:100**

**GENERAL INSTRUCTIONS:**

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**Subject: Hospital and Biostatistics**

**Q P CODE: 5146**

**I. Short notes, answer any FOUR questions.**

**4 X 5 = 20 marks**

1. Describe different methods of diagrams to present the statistical data
2. Tuberculin test reaction of 10 boys is given as 5, 5, 7, 7, 8, 8, 9, 10, 11, 12. Find mean and median
3. what are the advantages of diagrammatic representation of data
4. Explain about Scatter diagram
5. Define classification and write different types of classification.

**II. Short answers**

**10 X 3 = 30 marks**

6. Correlation and regression
7. Median and Mode
8. Systematic random sampling
9. Multistage random sampling
10. Bar diagram
11. Quantitative classification with example
12. Frequency Polygon
13. Class width and class interval
14. Purposive sampling
15. Sample and population

**Subject: Hospital and Biostatistics**

**Q P CODE: 5147**

**I. Short notes, answer any FOUR questions.**

**4 X 5 = 20 marks**

1. What are the inpatient statistical data collect in hospital.
2. Disease registers and Record linkage
3. Define Fertility and name the different types of Fertility rates.
4. Define Bed occupancy rate. In a month of June 4000 inpatients days were served in a hospital with 150 beds. Calculate bed occupancy rate.
5. Define hospital death rate. A hospital had a total of 15 deaths during the month of June. A total of 540 patients were discharged (including the 15 deaths) during the month. Calculate hospital death rate.

**II. Short answers**

**10 X 3 = 30 marks**

6. Bed Turnover Interval
7. Perinatal death rate
8. Cause specific death rate
9. Cesarean section rate
10. Foetal death ratio
11. Post operative death rate
12. Gross death rate
13. Hospital death rate
14. Post operative complication rate
15. Crude marriage rate

**PARAMEDICAL BOARD, BENGALURU**  
**Medical Records Technology**

**Time: 3.00 HRS**

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**GENERAL INSTRUCTIONS:**

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- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

**Subject: Hospital and Biostatistics**

**Q P CODE: 5146**

**I. Short notes, answer any FOUR questions.**

**4 X 5 = 20 marks**

1. Explain Mean (AM), Median and Mode
2. What is sampling? describe various types of sampling
3. Explain about Bar diagram and Pie Chart
4. Define Biostatistics? Write down its uses of Medical Sciences
5. Define classification and write different types of classification.

**II. Short answers**

**10 X 3 = 30 marks**

6. Range and Quartile deviation
7. Quantitative Variable with example
8. Systematic random sampling
9. Multistage random sampling
10. Bar diagram
11. Standard deviation
12. Frequency Polygon
13. Characteristics of Good Table
14. Karl Pearson correlation of Coefficient
15. Sample and population

**Subject: Hospital and Biostatistics**

**Q P CODE: 5147**

**I. Short notes, answer any FOUR questions.**

**4 X 5 = 20 marks**

1. What are the outpatient statistical data collect in hospital.
2. Disease registers and Record linkage
3. Define Fertility and name the different types of Fertility rates.
4. Crude death rate and age specific death rate.
5. Infant mortality rate and maternal mortality rate.

**II. Short answers**

**10 X 3 = 30 marks**

6. Mention hospital based death rates
7. Average daily census
8. Inpatient bed count
9. Inpatient service day
10. Foetal death ratio
11. Post operative death rate
12. Gross death rate
13. under -5 mortality rate
14. Post operative complication rate
15. Crude marriage rate

**PARAMEDICAL BOARD, BENGALURU**  
**Medical Records Technology**

**Time: 3.00 HRS**

**Max Marks:100**

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- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

**Subject: Hospital and Biostatistics**

**Q P CODE: 5146**

**I. Short notes, answer any FOUR questions.**

**4 X 5 = 20 marks**

1. Define Biostatistics? Write down its uses of Medical Sciences
2. Define Tabulation? Write down good characteristics of good table.
3. Explain about Bar diagram and Pie Chart
4. Explain Range, Mean Deviation and Standard deviation
5. Define classification and write different types of classification.

**II. Short answers**

**10 X 3 = 30 marks**

6. Data and its types with example
7. Arithmetic Mean or Mean with its merits and Demerits
8. Systematic random sampling
9. Multistage random sampling
10. Geographical Classification with Example
11. Median and Mode
12. Histogram
13. Characteristics of Good Table
14. Karl Pearson correlation of Coefficient
15. Properties of Normal Distribution

**Subject: Hospital and Biostatistics**

**Q P CODE: 5147**

**I. Short notes, answer any FOUR questions.**

**4 X 5 = 20 marks**

1. What are the outpatient statistical data collect in hospital.
2. Define vital statistics and state its components.
3. Define Fertility and name the different types of Fertility rates.
4. Crude death rate and age specific death rate.
5. Infant mortality rate and maternal mortality rate.

**II. Short answers**

**10 X 3 = 30 marks**

6. Admission and Discharge statistics
7. Average daily census
8. Specific death rate
9. Inpatient service day
10. Foetal death ratio
11. Post operative death rate
12. Caesarean section rate
13. Under -5 mortality rate
14. Post operative complication rate
15. Bed turnover interval

**PARAMEDICAL BOARD, BENGALURU**  
**Medical Records Technology**

**Time: 3.00 HRS**

**Max Marks:100**

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- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

**Subject: Hospital and Biostatistics**

**Q P CODE: 5146**

**I. Short notes, answer any FOUR questions.**

**4 X 5 = 20 marks**

1. Define Biostatistics? Write down its uses of Medical Sciences
2. Define Tabulation? Write down good characteristics of good table.
3. Write down different types of classification with example
4. Explain Range, Mean Deviation and Standard deviation
5. Calculate Mean, Median for the following observations  
18, 30, 15, 14, 17, 25, 24, 27, 29 and 28.

**II. Short answers**

**10 X 3 = 30 marks**

6. Distinguish between discrete and continuous variable
7. Arithmetic Mean or Mean with its merits and Demerits
8. Systematic random sampling
9. Multistage random sampling
10. Geographical Classification with Example
11. Median and Mode
12. Ogive curve
13. sample and population
14. Spearman's Rank Correlation
15. Properties of Normal Distribution

**Subject: Hospital and Biostatistics**

**Q P CODE: 5147**

**I. Short notes, answer any FOUR questions.**

**4 X 5 = 20 marks**

1. Infant mortality rate and maternal mortality rate.
2. Define vital statistics and state its components.
3. Define Fertility and name the different types of Fertility rates.
4. Crude death rate and age specific death rate.
5. The census population of a town in 2001 was 65,000 and in 2011 is 78,000. Calculate the Mid - year population of the town for the year 2018

**II. Short answers**

**10 X 3 = 30 marks**

6. Describe reports related to admission
7. Average daily census
8. Specific death rate
9. Inpatient service day
10. Foetal death ratio
11. Uses of Hospital statistics
12. Caesarean section rate
13. Under -5 mortality rate
14. Post operative complication rate
15. Bed turnover interval

**PARAMEDICAL BOARD, BENGALURU**  
**Medical Records Technology**

**Time: 3.00 HRS**

**Max Marks:100**

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**Subject: Hospital and Biostatistics**

**Q P CODE: 5146**

**I. Short notes, answer any FOUR questions.**

**4 X 5 = 20 marks**

1. Define Biostatistics? Write down its uses of Medical Sciences
2. Define Mean, Median and Mode with its merits and demerits
3. What is sampling? Describe various types of sampling
4. Explain Range, Mean Deviation and Standard deviation
5. The weight of ten men(in Kilograms) are 43, 65, 42, 58, 67, 55, 62, 58, 43 and 57.  
Calculate standard deviation

**II. Short answers**

**10 X 3 = 30 marks**

6. Distinguish between classification and tabulation
7. Advantages of diagrammatic representation of data
8. Bar diagram
9. Pie Chart
10. Geographical Classification with Example
11. Chronological classification
12. Ogive curve
13. Characteristics of Good Table
14. Spearman's Rank Correlation
15. Properties of Normal Distribution

**Subject: Hospital and Biostatistics**

**Q P CODE: 5147**

**I. Short notes, answer any FOUR questions.**

**4 X 5 = 20 marks**

1. Define Health information system and mention the sources of health information system.
2. Define Vital statistics and write down the uses of vital statistics
3. Define Morbidity and explain two indicators.
4. Crude Death rate and infant Mortality rate
5. The census population of a Bidar District in 2001 was 1,502,373 and in 2011 is 1,703,300. Calculate the mid-year population of the Bidar district for the year 2018.

**II. Short answers**

**10 X 3 = 30 marks**

6. Crude birth rate.
7. Age Specific Fertility rate
8. In a town with a mid-year population in the reproductive age group of 170,000, there were 1,100 live births in a given year. Calculate general fertility rate.
9. Case fatality rate
10. Bed occupancy rate
11. Bed turnover ratio
12. Anaesthesia death rate
13. Net death rate
14. Average length of stay
15. Gross death rate

PARAMEDICAL BOARD, BENGALURU  
Medical Records Technology

Time: 3.00 HRS

Max Marks:100

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Subject: Hospital and Biostatistics

Q P CODE: 5146

**I. Short notes, answer any FOUR questions.**

**4 X 5 = 20 marks**

1. Define Biostatistics? Write down its uses of Medical Sciences
2. Define Tabulation? Write down good characteristics of good table.
3. Write down different types of classification with example
4. Explain about histogram and ogive curve
5. Define Data, Variable, Sample and Population with example

**II. Short answers**

**10 X 3 = 30 marks**

6. Distinguish between primary data and Secondary data
7. Advantages of diagrammatic representation of data
8. Median and Mode
9. Calculate mean for the following data 750, 710,680,660,620,580,540.
10. Cluster random sampling
11. Systematic random sampling
12. Quartile deviation
13. Standard normal curve
14. Scatter diagram
15. Mean deviation and its merits

Subject: Hospital and Biostatistics

Q P CODE: 5147

**I. Short notes, answer any FOUR questions.**

**4 X 5 = 20 marks**

1. Define Health information system and mention the sources of health information system.
2. Define Vital statistics and write down the uses of vital statistics
3. Define Morbidity and explain two indicators.
4. Crude Death rate and infant Mortality rate
5. In a Community health centre , following vital events have been reported during the year 2017.

A. Mid year population	.....	1,25,000
B. No. of births registered	.....	2412
C. No. of deaths reported	.....	1221
D. No. of infant deaths	.....	122

Calculate Crude birth rate, crude death rate and infant mortality rate.

**II. Short answers**

**10 X 3 = 30 marks**

6. Crude birth rate and age specific death rate.
7. Age Specific Fertility rate
8. Following is the statement of vital events for a city in 2016  
Birth (B): 10000, Death (D): 4000, Immigrants (I): 2000  
Emigrants (E): 2500. On 1st Jan 2017 population was 520300. Calculate net population on 1st Jan. 2018.
9. Case fatality rate
10. Bed occupancy rate
11. Bed turnover ratio
12. Anaesthesia death rate
13. Net autopsy rate
14. Average length of stay
15. Gross death rate