

PARAMEDICAL BOARD, BENGALURU

Operation Theatre 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: Fundamental of OT

Q P CODE: 5131

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1) Sterile team members
- 2) Pre operative preparation of patient before surgery.
- 3) Universal precautions in handling the instrument.
- 4) Pros and Cons of disposables
- 5) Methods of Sterilization

II. Short answers

10 X 3 = 30 marks

- 6) Supply of gases
- 7) Scrub Nurse
- 8) Precautions in Using Cautery
- 9) Iodine
- 10) Vaccumsuction
- 11) Harmonic Scalpal
- 12) Bioburden
- 13) Gowning
- 14) Pre operative planning
- 15) Sitz bath

Subject: Basic Concept in Surgery

Q P CODE: 5132

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1) Ambulatory (day care) surgery
- 2) Check list of patients before surgery
- 3) CPR
- 4) Criteria for Positioning
- 5) Methods of haemostasis

II. Short answers

10 X 3 = 30 marks

- 6) Nasogastric intubation - uses
- 7) Factors influencing wound healing
- 8) Types of sutures materials
- 9) Sims position
- 10) Carbon dioxide gas
- 11) IVP (Intra Venous Pyelography)
- 12) Patient Nurse relationship
- 13) Pulse oximeter
- 14) Skin Preparation
- 15) Types of urinary catheter

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Subject: Fundamental of OT

Q P CODE: 5131

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1) Universal precautions in surgery
- 2) Technique of preservation of specimens for histopathology & Microbiology.
- 3) Pros and Cons of disposables
- 4) Electrical hazards and safeguards
- 5) Harmonic scalpel

II. Short answers

10 X 3 = 30 marks

- 6) Team Concept
- 7) Peripheral Support areas
- 8) Source of Contamination
- 9) Types of gases
- 10) Surgical scrubbing
- 11) Circulating Nurse
- 12) Flash Sterilization
- 13) Importance of keeping sharp instrument count
- 14) Patient basic needs
- 15) Infection control

Subject: Basic Concept in Surgery

Q P CODE: 5132

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1) Laparoscopic sterilization
- 2) Types of catheters describe Foley's catheterisation
- 3) Intra operative care & recovery
- 4) Wound management
- 5) Technique of draping

II. Short answers

10 X 3 = 30 marks

- 6) Name three suturing techniques
- 7) Discharge details
- 8) Identification of patient
- 9) Monitoring of vital functions
- 10) Lithotomy position - indication
- 11) Draping plastic isolation
- 12) Types of haemorrhage
- 13) Skin closure drugs
- 14) Ultra sonography
- 15) Pneumoperitoneum

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Subject: Fundamental of OT

Q P CODE: 5131

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1) Manifold Room Concept
- 2) Types of Cautery and their precautions during using.
- 3) Vaccum Suction
- 4) Radiation hazards and safeguards
- 5) Concept of CSSD {Central sterile supply department}

II. Short answers

10 X 3 = 30 marks

- 6) Technical Nursing
- 7) Unscrubbed team members
- 8) Patient physician relationship
- 9) Pre operative check list before surgery
- 10) Prevention of infection
- 11) Microbiological safety
- 12) Antiseptics
- 13) Division of duties
- 14) Exchange areas
- 15) Team Work

Subject: Basic Concept in Surgery

Q P CODE: 5132

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1) Post operative patient monitoring
- 2) Describe an ambulatory surgical care facility
- 3) Advantages and disadvantages of open Vs laparoscopic surgeries
- 4) Awareness of risks involved in various positions
- 5) Endoscopy

II. Short answers

10 X 3 = 30 marks

- 6) Surgical Needles
- 7) Staples
- 8) Sterilization of Laparoscopy
- 9) Tissue replacement materials
- 10) Equipments for positioning a patient
- 11) Foley's catheterisation
- 12) Types of wounds
- 13) Intra Operative complications of operations
- 14) Patients skin preparation on O R table
- 15) Follow up of discharged patients

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Subject: Fundamental of OT

Q P CODE: 5131

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1) Necessity for standardized procedures & techniques
- 2) Staff nursery personnel team work
- 3) Preparation of all patients for surgery
- 4) Intra and post operative evaluation
- 5) Techniques of gloving

II. Short answers

10 X 3 = 30 marks

- 6) Sharp instrument count
- 7) Room clean up procedure after surgery daily
- 8) Nursing administrative personnel
- 9) Patient centered care
- 10) Standards of pre operative nursing practice
- 11) Environmental control
- 12) Economical use of supplies
- 13) Supply of gases
- 14) Scrub Nurse
- 15) Antiseptics

Subject: Basic Concept in Surgery

Q P CODE: 5132

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1) Complications of operations
- 2) Preparation of patient prior to surgery
- 3) Methods of Haemostasis
- 4) Role of Nursing personnel in management of ambulatory surgical patient
- 5) Post operative patient Monitoring

II. Short answers

10 X 3 = 30 marks

- 6) Patient receiving and identification
- 7) Advantages of ambulatory surgery
- 8) Technique of draping
- 9) Factors influencing wound healing
- 10) Operative positions
- 11) Nasogastric tube
- 12) Tissue adhesives
- 13) Name three Non absorbable suture materials
- 14) Preparation for KUB X-Ray
- 15) Advantages of laparoscopic surgery.

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Subject: Fundamental of OT

Q P CODE: 5131

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1) Hand washing techniques
- 2) Pre operative care in recovery room
- 3) Define sterilization – What are the principles of sterilization
- 4) Physical layout in the OR
- 5) Techniques of draping

II. Short answers

10 X 3 = 30 marks

- 6) Oxyzen
- 7) Gluteraldehyde
- 8) Direct patients care team
- 9) Ethylene oxide gas sterilization
- 10) Bioburden
- 11) Sponge
- 12) Patient regrets
- 13) Intra operative implementations
- 14) Pre operative assessment
- 15) Economical use of equipment

Subject: Basic Concept in Surgery

Q P CODE: 5132

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1) Micro surgery
- 2) Laparoscopic procedure
- 3) Plethsmography
- 4) Surgeon choice of sutures and needles
- 5) Mechanism of wound healing

II. Short answers

10 X 3 = 30 marks

- 6) Pre operative room
- 7) CPR
- 8) Patient as individual – during positioning
- 9) Preparation of operative site
- 10) Factors influencing mechanism of haemostasis
- 11) Monitoring of vital functions
- 12) Positions in surgery
- 13) Pulse oximeter
- 14) Types of catheters
- 15) Common suturing techniques.

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Subject: Fundamental of OT

Q P CODE: 5131

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. CSSD.
2. Preoperative care.
3. Infection control measures in OT.
4. Post-operative care
5. OT layout

II. Short answers

10 X 3 = 30 marks

6. Caurtery.
7. Daily room cleaning.
8. Lithotomy position.
9. Team work
10. Scrub nurse.
11. Gloving.
12. Endoscopy.
13. Consent.
14. Team work.
15. Instrument counts

Subject: Basic Concept in Surgery

Q P CODE: 5132

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Preoperative patient check list.
2. CPR.
3. Wound management.
4. Factor influencing wound healing.
5. Endoscopy.

II. Short answers

10 X 3 = 30 marks

6. Types of needles.
7. Nasogastric tube.
8. Daycare surgery.
9. Mop count.
10. Surgical site infection.
11. Suction device.
12. Movements in operation theatre
13. Surgical gown.
14. PDS suture.
15. Types of dressings.

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Subject: Fundamental of OT

Q P CODE: 5131

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Concept of cssd.
2. Pre-operative assessment.
3. Intra-operative care.
4. Different zones of OT.
5. Source of infection and control measures.

II. Short answers

10 X 3 = 30 marks

6. Sterile team members.
7. Weekly room cleaning.
8. PDS Suture.
9. Unscrubbed team member.
10. Gloving.
11. Care of instruments.
12. Preservation of specimen.
13. Harmonic scalpel.
14. Expected behaviour of nurse.
15. Technical nursing.

Subject: Basic Concept in Surgery

Q P CODE: 5132

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Ambulatory surgical care.
2. CPR.
3. Methods of haemostasis.
4. Mechanism of wound healing.
5. Ultrasonography.

II. Short answers

10 X 3 = 30 marks

6. Lithotomy position.
7. Laryngeal mask
8. Foley's catheter.
9. Pulse oxymeter.
10. Linen packing.
11. C-arm.
12. Hand washing steps.
13. Staplers in surgery.
14. Discharge and follow up.
15. Hospital waste management.

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Subject: Fundamental of OT

Q P CODE: 5131

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Parameters of sterilization.
2. Bioburden.
3. Unscrubbed team members.
4. Electrical hazards and safeguards.
5. Harmonic scalpel.

II. Short answers

10 X 3 = 30 marks

6. Types of consent.
7. Pre-op role.
8. Asepsis.
9. Methods of scrubbing.
10. Physical layout of OT
11. Instrument count.
12. Draping.
13. Cleaning after surgery.
14. Economical uses of supplies.
15. Vacuum suction.

Subject: Basic Concept in Surgery

Q P CODE: 5132

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Requirement of ambulatory surgical care facility
2. Complications of operation.
3. Risks of various positions.
4. Wound management.
5. Concepts of laparoscopic surgery.

II. Short answers

10 X 3 = 30 marks

6. Skin preparation on OT table.
7. Surgical site infection.
8. Non absorbable suture material.
9. Air flow in OT.
10. Tetanus toxoid.
11. Red rubber catheter.
12. OT cleaning techniques.
13. Forceps.
14. Surgical mops.
15. Tracheostomy.

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Q P CODE: 5131

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Methods of sterilisation.
2. Disinfection.
3. Pre-op preparation for surgery.
4. Professional nursing.
5. Various types of cauteries.

II. Short answers

10 X 3 = 30 marks

6. Electrical hazards.
7. Head draping.
8. Asepsis
9. Suction apparatus.
10. Precautions in using cautery.
11. Informed consent.
12. Vacuum suction
13. Waste disposal.
14. Patient nurse -relationship.
15. Duty diversion.

Subject: Basic Concept in Surgery

Q P CODE: 5132

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Advantages of ambulatory surgical care.
2. CPR.
3. Methods of haemostasis.
4. Laser surgery.
5. Classification of suture materials with explanation.

II. Short answers

10 X 3 = 30 marks

6. Manilord concept.
7. Nasogastric tube.
8. Staplers.
9. Types of antiseptics.
10. Corrugated drain.
11. Hand washing techniques.
12. Scissors.
13. Blood transfusion.
14. Equipment's for position
15. Types of wound.

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Subject: Fundamental of OT

Q P CODE: 5131

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Ideal OT plan.
2. Autoclaving.
3. Duties of scrub nurse.
4. Pre-operative preparation for abdominal OT.
5. Patient care in recovery room.

II. Short answers

10 X 3 = 30 marks

6. Monthly OT room cleaning.
7. Handling of instruments.
8. Methods of sending specimen to HPR
9. Radiation hazards.
10. Consent for surgery.
11. Nursing administrative personnel.
12. Disinfection.
13. Scrubbing.
14. Exchange areas in OT.
15. Informed consent.

Subject: Basic Concept in Surgery

Q P CODE: 5132

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Ambulatory surgical care facility
2. Equipment positions
3. Criteria for positioning.
4. Haemostasis.
5. Packing of surgical instruments.

II. Short answers

10 X 3 = 30 marks

6. Pulse oxymeter.
7. Enema.
8. Ryle's tube.
9. Boyle's apparatus.
10. Absorbable suture materials.
11. Urinary tract catheterisation.
12. Hand washing steps.
13. Airway.
14. Vacuum suction.
15. Mop count and importance.

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Subject: Fundamental of OT

Q P CODE: 5131

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Write a short note on Professional Nursing
2. Describe OT Health care team concept
3. Write a note on Pre-Operative assessment of the patient
4. Write a short note on chemical sterilization
5. Describe cleaning of OT after an operation

II. Short answers

10 X 3 = 30 marks

6. Patient with special needs
7. Quality control circles
8. Write the three techniques of draping
9. Enumerate 3 advantages of Autoclaving
10. Purpose of pressure dressing
11. Harmonic B calpel
12. Care of lensed instruments
13. Manifold Room concept
14. Methods of guarding sponges
15. Theatre sterile supply unit (TSSD)

Subject: Basic Concept in Surgery

Q P CODE: 5132

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Ambulatory surgery
2. Describe various operative positions in surgery
3. Foley's catheterization
4. Describe mechanism of Homeostasis
5. Write a short note on Microsurgery

II. Short answers

10 X 3 = 30 marks

6. Care of Pre-Operative patient
7. Draping in abdominal and chest surgery
8. Define open wound, closed wound and incised wound
9. Absorbable sutures
10. Sclerotherapy
11. Describe the wound Healing process in our body
12. What are Autograft, Allograft and Homograft ?
13. CPR
14. Microfibrillar Collagen
15. Plethysmography

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Subject: Fundamental of OT

Q P CODE: 5131

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Write a note on Expected behavior of Nursing Personnel
2. Patient Physician Relationship
3. Write a note on Sponge, Sharp and instrument counts
4. Principles of sterile Techniques
5. Radiation Hazards and safeguard

II. Short answers

10 X 3 = 30 marks

6. Types of Cautery
7. Gowning
8. Ozone gas
9. Chemical indicator with respect to sterilizer
10. CSSD
11. Informed consent of surgery
12. Hand washing Techniques
13. Duties of Head nurse
14. Pros & cons of Disposables
15. What are the different zones of OT complex?

Subject: Basic Concept in Surgery

Q P CODE: 5132

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Describe the different areas of Pre-Operative preparation for different surgeries
2. Write a short note on methods of Aemostasis
3. Describe factors affecting wound Healing
4. Classify suture materials with examples
5. Concepts of laparoscopic surgery

II. Short answers

10 X 3 = 30 marks

6. Plethysmography
7. Purse string suture
8. Phases of wound healing process
9. Define Abrasion, Lacerated wound, Incised wound
10. Bone Wax
11. Digital Ring Block
12. Draping in cranial surgeries
13. Describe Trendlenburg and lithotomy position in surgery
14. Indications of Ambulatory Surgery
15. Universal Precautions in Surgery

PARAMEDICAL BOARD, BENGALURU

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Subject: Fundamental of OT

Q P CODE: 5131

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Techniquial Nursing
2. Everyday Meaning set up of OT
3. Prevention of electrical Hazards in OT
4. Autoclaving
5. Write a short note on Post-Operative assessment of the patient

II. Short answers

10 X 3 = 30 marks

6. Bioburden
7. Responsibilities of Anesthetist
8. Patient Centered care
9. Preparation prior to surgical Scrub
10. Write 3 disadvantages of steam disinfection
11. Formaldehyde gas
12. Closed Gloving Technique
13. Radiation Hazards
14. Surgical Conscience
15. Preservation of specimen to be sent for histopathology

Subject: Basic Concept in Surgery

Q P CODE: 5132

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Describe Draping of different areas in different surgeries
2. Mechanical Methods of Hemostasis
3. Complications of wound
4. Staples in surgery
5. Stain grafting

II. Short answers

10 X 3 = 30 marks

6. Advantages of Ambulatory surgery
7. Describe Prone cranial and sitting cranial positions in surgery
8. Indwelling catheters
9. Enema
10. Describe Penetratingwound & punctured wound
11. Catgut
12. CT scan
13. Contra Indications of esmarch's Bandage
14. Plasma scalpel
15. Ryle's tube

PARAMEDICAL BOARD, BENGALURU

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Subject: Fundamental of OT

Q P CODE: 5131

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Describe the duties of a scrub nurse before the surgeon
2. arrives and during the operation
3. Sterile Techniques during operation
4. Parameters of sterilization
5. Write a note on operating room Attire

II. Short answers

10 X 3 = 30 marks

6. Thermal sterilization
7. What is biological indicator with respect to sterilizer?
8. Quality control circles
9. Precautions in Using Caутery
10. Iodine
11. Vaccumsuction
12. Harmonic Scalpal
13. Bioburden
14. Gowning
15. Pre operative planning

Subject: Basic Concept in Surgery

Q P CODE: 5132

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Write a short Note on Ambulatory surgery
2. Describe chemical methods of Homeostasis
3. Classification of wounds
4. DSG
5. Characteristics of Ideal suture material

II. Short answers

10 X 3 = 30 marks

6. Care of Pre-operative patient
7. Describe Knee-elbow and Jack knife position
8. Draping in perineal surgeries
9. Types of urinary catheters
10. Dneumatu counter pressure device
11. Diathermy
12. What is a contaminated wound and how is it managed?
13. Chromic catgut
14. Subcuticular suture
15. Colonoscopy

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Subject: Fundamental of OT

Q P CODE: 5131

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Describe the duties of a circulating Nurse
2. Write a short note on equipments in the OT
3. Write a note on daily weekly and monthly cleaning of OT
4. Write a brief note on sterilizing agents
5. OT Health care team concept

II. Short answers

10 X 3 = 30 marks

6. Enumerate 3 advantages of ionizing radiation in sterilization
7. Time methods of surgical scrub
8. Methods of Accounting of sharp instruments by a scrub nurse
9. Safeguards for preventing radiation Hazards
10. Harmonic scalpel
11. Doctor patient relationship
12. Depending on their intended purpose and body contact,
13. How are the items in the OT classified?
14. Care & lensed instruments
15. Pros & Cons of disposables

Subject: Basic Concept in Surgery

Q P CODE: 5132

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Cardio pulmonary Resuscitation
2. Describe different operative positions in surgery
3. Thermal Methods of Hemostasis
4. Write a short note on factor affecting wound healing process
5. Microsurgery

II. Short answers

10 X 3 = 30 marks

6. Hamby's Knife
7. Somato sensory evoked potential tests
8. Nasogastric Aspiration
9. Retention sutures
10. Ideal suture material
11. Describe Autograft, Allograft and Homograft
12. Describe Lacerated wound & incised wound
13. Draping in abdominal and chest surgery
14. Checklist for the Pre-Operative patient
15. Write three advantages of Ambulatory surgery

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Subject: Biochemistry

Q P CODE: 5133

I Short notes (Answer any TWO question)

(5x2=10)

1. Metabolic acidosis
2. Renal function test
3. Isoenzymes

II .Short answers

(10 x 3=30)

4. pH
5. water soluble vitamins
6. Glomerular Function rate GFR
7. Factors affecting enzyme action
8. List three electrolytes with normal serum values
9. Transamination
10. Test for bile salts
11. Liver enzymes of Diagnostic importance
- 12.HDL High Density Lipoprotein
13. DNA

Subject: Pharmacology

Q P CODE: 5134

I Short notes (Answer any three question)

(5x3=15)

1. Define chemoprophylaxis. Mention 3 drugs and their indication for chemoprophylaxis
2. Inhalational anaesthetics. Add a note on halothane uses and adverse effects.
3. Classify Fluroquinolones and mention their indications.
4. Anaphylactic shock management

II .Short answers

(3x5=15)

5. Mention three ototoxic amino glycosides.
6. Adverse effects of Diazepam.
7. Plant sources of drug.
8. Uses of metaclopramide.
9. Define hypertensive emergency and mention 3 drugs used.

Subject: Microbiology

Q P CODE: 5135

I Short notes (Answer any three question)

(5x3=15)

1. Louis Pasteur
2. Autoclave
3. Type 1 hypersensitivity
4. Laboratory diagnosis of HIV

II .Short answers

(3x5=15)

5. Incineration
6. Name gaseous disinfectants
7. Types of hospital acquired infections
8. Prophylaxis for tetanus
9. Glutaraldehyde

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Operation Theatre 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: Biochemistry

Q P CODE: 5133

I Short notes (Answer any TWO question)

(5x2=10)

1. Enzymes in diagnosis of myocardial infarction
2. Liver function test
3. Metabolic alkalosis

II .Short answers

(10 x 3=30)

4. RNA
5. Renal clearance tests
6. Deamination of amino acids
7. Lipoproteins
8. Monosaccharides
9. Essential amino acids
10. Principle of Glucose estimation by folinwu method
11. Abnormal constituents of urine
12. Cholesterol estimation methods
13. Define acid base buffer

Subject: Pharmacology

Q P CODE: 5134

I Short notes(Answer any three question)

(5x3=15)

1. Define Clinical pharmacology.Add a note on inhalational route of drug administration.
2. Classify Opioids based on receptors.Add a note on significance of morphine on Left ventricular failure.
3. Pre-anaesthetic medication
4. Mention uses,contraindications and adverse effects of Succinyl choline

II .Short answers

(3x5=15)

- 5 .Ketorolac
6. Composition of Eutectic mixture
7. Define pharmacodynamics
8. List chemicals used in OT fumigation
9. Crystalloids

Subject: Microbiology

Q P CODE: 5135

I Short notes (Answer any three question)

(5x3=15)

1. Robert Koch
2. Hot air oven
3. Active immunity
4. Laboratory diagnosis of tuberculosis

II .Short answers

(3x5=15)

5. Articles sterilised by radiation
6. Labelled diagram of IgM
7. Organisms causing hospital acquired infections
8. DPT
9. Name killed vaccines

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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: Biochemistry

Q P CODE: 5133

I Short notes (Answer any TWO question)

(5x2=10)

1. Respiratory acidosis
2. Classify carbohydrates with examples
3. Isoenzymes

II .Short answers

(10 x 3=30)

4. LDL cholesterol
5. Disaccharides
6. Principle of glucose estimation by Glucose oxidase method
7. DNA
8. Test for bile pigments
9. define acid base buffer
10. Transamination
11. Factors affecting enzyme action
12. Normal values of Electrolytes
13. Tubular function tests

Subject: Pharmacology

Q P CODE: 5134

I Short notes(Answer any three question)

(5x3=15)

1. Classify oral hypoglycemic drugs. Add a note on Metformin.
2. Enumerate 6 aminoglycosides. Describe their Adverse effect profile.
3. Management of status asthmaticus.
4. Define syrups with examples. Mention different type of drug dosage forms.

II .Short answers

(3x5=15)

5. Pharmacotherapeutics
6. Ramifentanyl
7. Contraindication of corticosteroids
8. Mention 3 common emergency drugs used in OT
9. Adverse effects of Thiazide diuretics.

Subject: Microbiology

Q P CODE: 5135

I Short notes (Answer any three question)

(5x3=15)

1. Bacterial cell wall
2. Oxidising agents
3. Passive immunity
4. Laboratory diagnosis of enteric fever

II .Short answers

(3x5=15)

5. Contributions of Robert Koch
6. Tyndallisation
7. Fumigation
8. BCG
9. Articles sterilised by ETO steriliser

PARAMEDICAL BOARD, BENGALURU

Operation Theatre 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: Biochemistry

Q P CODE: 5133

I Short notes (Answer any TWO question)

(5x2=10)

1. Classify enzymes with examples
2. Liver function Tests
3. Respiratory alkalosis

II .Short answers

(10 x 3=30)

4. Polysaccharides
5. DNA
6. Abnormal constituents of urine
7. Test for bile pigments
8. Define acid, base, and buffer
9. Principle of glucose estimation by Folin Wu method
10. Transamination
11. Lipoproteins
12. Isoenzymes
13. Buffers of the body

Subject: Pharmacology

Q P CODE: 5134

I Short notes(Answer any three question)

(5x3=15)

1. List preparations of insulin and mention side effects and precautions to be taken in insulin therapy
2. Classify antihypertensive drugs. Briefly discuss any one group with suitable example
3. Discuss in detail pharmacological action adverse effect and contraindication of aspirin
4. Discuss any 2 fibrinolytics with their clinical indications.

II .Short answers

(3x5=15)

5. Define chemotherapy.
6. Management of Morphine poisoning
7. Halothane induced hepatotoxicity
8. Ondansetron
9. Anti Retroviral drugs used in post exposure prophylaxis

Subject: Microbiology

Q P CODE: 5135

I Short notes (Answer any three question)

(5x3=15)

1. Labelled diagram of bacterial cell
2. Filtration
3. Innate immunity
4. Laboratory diagnosis of tuberculosis

II .Short answers

(3x5=15)

5. Contributions of Joseph lister
6. Low level disinfection
7. Name zoonotic infections
8. Flagella
9. Segregation of infective biomedical waste

PARAMEDICAL BOARD, BENGALURU

Operation Theatre 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: Biochemistry

Q P CODE: 5133

I Short notes (Answer any TWO question)

(5x2=10)

1. Classify lipids with examples
2. Arterial blood gas analysis
3. Liver function Tests

II .Short answers

(10 x 3=30)

4. Purines and pyrimidines
5. Polysaccharides
6. VLDL Very low density Lipoprotein
7. Test for bile pigments
8. Buffers of body
9. Liver enzymes of diagnostic importance
10. Essential aminoacids
11. Factors affecting enzyme action
12. Renal clearance tests
13. Water soluble vitamins

Subject: Pharmacology

Q P CODE: 5134

I Short notes(Answer any three question)

(5x3=15)

1. Classify drugs used in peptic ulcer disease. Add a note on Pantoprazole.
2. Describe pharmacological action and indications of theophylline
3. Classify Skeletal muscle relaxants. Add a note on mivacurium
4. Define Toxicology. Discuss advantages and disadvantages of transdermal route

II .Short answers

(3x5=15)

5. Indications of vasopressin
6. Sodium bicarbonate-its uses
7. Define prototype drug
8. Differences between Antiseptics and Disinfectant
9. Beta-lactamase inhibitors

Subject: Microbiology

Q P CODE: 5135

I Short notes (Answer any three question)

(5x3=15)

1. Bacterial spore
2. Alcohols
3. Anaphylaxis
4. Laboratory diagnosis of diphtheria

II .Short answers

(3x5=15)

5. Contributions of Edward Jenner
6. Sterilisation of endotracheal tube
7. High level disinfection
8. Name sexually transmitted infections
9. Non suppurative complications of streptococcal infections

PARAMEDICAL BOARD, BENGALURU

Operation Theatre 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: Biochemistry

Q P CODE: 5133

I Short notes (Answer any TWO question)

(5x2=10)

1. Classify Enzymes with one example each.
2. Write the principle, procedure, calculation of Glucose estimation by GOD POD method.
3. Classify amino acids with examples.

II .Short answers

(10 x 3=30)

4. Define Arrhenius Concept of Acids & Bases
5. Define Acid base indicators. Name any 3 commonly used indicators with their pH range
6. Classify Disaccharides with examples
7. Define Essential & Non essential amino acids & name them
8. What are plasma proteins? Name them with reference value
9. What are essential Fatty Acids? Name them
10. Write the difference between DNA & RNA
11. Write the sources & biochemical functions of Vitamin D
12. Name the abnormal constituents of Urine
13. Name the test to detect Bile pigments & Write the procedure.

Subject: Pharmacology

Q P CODE: 5134

I Short notes (Answer any three question)

(5x3=15)

1. Factors Modifying Drug Action
2. Preanaesthetic medication
3. Therapeutic uses of corticosteroids
4. Differentiate between d-tubocurarine versus succinyl choline

II .Short answers

(3x5=15)

5. Treatment of hypersensitivity
6. Role of streptokinase in myocardial infarction
7. Management of Grandmal epilepsy
8. Indications of Pantoprazole
9. Therapeutic uses of Promethazine

Subject: Microbiology

Q P CODE: 5135

I Short notes (Answer any three question)

(5x3=15)

1. Robert Koch
2. Define Sterilisation. Write about Autoclave
3. Active immunity
4. Standard (Universal) precautions

II .Short answers

(3x5=15)

5. Mention 3 viruses transmitted through blood and blood products
6. What are the different colour coded bags used for biomedical waste disposal with examples
7. Name 3 Clostridium species and disease caused by each
8. Herd immunity
9. Mention the methods of Sterilisation of endotracheal tubes, Ophthalmic scissors, Aprons

PARAMEDICAL BOARD, BENGALURU

Operation Theatre 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: Biochemistry

Q P CODE: 5133

I Short notes (Answer any TWO question)

(5x2=10)

1. Describe about physical and chemical properties of acids & bases
2. Write about types of DNA. Draw a neat labeled diagram of DNA\
3. Classify Renal Function test .Write about creatinine clearance test

II .Short answers

(10 x 3=30)

4. Define Lowry Bronsted theory of acids & bases.
5. What are the types of salts and name them.
6. Classify polysaccharides with examples.
7. Biochemical functions of Albumin.
8. Types of RNA. Draw a neat diagram of t-RNA and label the parts.
9. Name Aromatic Amino acids.
10. Hypercholesterolemia.
11. Van Den Bergh Test.
12. What is Beri beri due to?
13. Wilsons Disease.

Subject: Pharmacology

Q P CODE: 5134

I Short notes(Answer any three question)

(5x3=15)

- 1.Management of Paracetamol Poisoning
- 2 Rationale behind drugs used in the treatment of Anaphylactic Shock
3. Complications of Spinal Anaesthesia
4. Therapeutic uses of Ampicillin

II .Short answers

(3x5=15)

- 5.Therapeutic uses of Acyclovir
6. Different routes of Lignocaine administration
- 7.Therapeutic indications of d-Tubocurarine
- 8.Mention three Adverse effects of Insulin
- 9.Rationale behind combining L-DOPA and Carbidopa in parkinsonism

Subject: Microbiology

Q P CODE: 5135

I Short notes (Answer any three question)

(5x3=15)

1. Sterilisation of operation theatre
2. Hot air oven
3. Personal protective equipment (PPE)
4. Define biomedical waste. What are the general principles of waste management?

II .Short answers

(3x5=15)

5. Safe injection practices
6. Give examples of infections produced by: Staphylococcus aureus, Clostridium tetani and Mycobacterium tuberculosis
7. Define immunity. Give examples of active immunity
8. Modes of transmission of Human Immunodeficiency Virus
9. Name 3 chemical disinfections and their uses

PARAMEDICAL BOARD, BENGALURU

Operation Theatre 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: Biochemistry

Q P CODE: 5133

I Short notes (Answer any TWO question)

(5x2=10)

1. Describe in detail about polysaccharides with examples
2. Describe the principle, procedure & calculation of cholesterol estimation by enzymatic method
3. Write about physical & chemical characteristics of abnormal constituents of Urine

II .Short answers

(10 x 3=30)

4. Define Buffers. What is hydrogen ion concentration?
5. What are the different methods of Glucose estimation?
6. Mention some commonly used indicators
7. What is transamination? What are the enzymes involved in transamination reaction.
8. What are Nucleotides & Nucleosides?
9. Name Purines & Pyrimidines.
10. What are the types of enzyme inhibitors?
11. Classify Jaundice.
12. Biochemical Functions of Folic acid.
13. What are the factors which inhibit calcium absorption?

Subject: Pharmacology

Q P CODE: 5134

I Short notes(Answer any three question)

(5x3=15)

- 1.Management of Status Epilepticus
- 2.Epidural Anaesthesia
- 3.Peptic Ulcer Disease and Its Management
- 4.Diffentiate between Paracetamol and Morphine

II .Short answers

(3x5=15)

5. Mention three uses of styptics
- 6..Treatment of Hypersensitivity reaction
7. Therapeutic uses of Nitroglycerine
8. Mention 3 alkaloids with examples
- 9.Eutectic Mixture

Subject: Microbiology

Q P CODE: 5135

I Short notes (Answer any three question)

(5x3=15)

1. Joseph Lister
2. Active immunity
3. Autoclave
4. Define nosocomial infection. Discuss the measures to control infection in healthcare setting

II .Short answers

(3x5=15)

5. Mention 3 methods of biomedical waste treatment with examples
6. Modes of transmission of Hepatitis B virus
7. What is the pathogenesis of type IV hypersensitivity? Give examples
8. What are the methods of sterilisation of: Cotton Swabs, forceps, surgical dressings?
9. Enumerate infections produced by Candida

PARAMEDICAL BOARD, BENGALURU

Operation Theatre 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: Biochemistry

Q P CODE: 5133

I Short notes (Answer any TWO question)

(5x2=10)

1. Write the principle, procedure & calculation of Urea estimation by Diacetyl Monoxyme (DAM) Method.
2. Classify liver function test. Add a note on any two tests.
3. What is normal blood pH? Describe about renal regulation of pH.

II .Short answers

(10 x 3=30)

4. Classify acids and bases with definition.
5. Write briefly about acid base disorders.
6. What is the significance of arterial blood gas analysis?
7. Define anomers and epimers.
8. What are saturated and unsaturated fatty acids? Name them
9. Name any three biologically important amines.
10. What are the types of DNA and RNA?
11. Enzyme profile in myocardial infarction.
12. Sources and biochemical functions of Vitamin – E.
13. What are the sources and disorders of Fluoride?

Subject: Pharmacology

Q P CODE: 5134

I Short notes(Answer any three question)

(5x3=15)

1. Classify fluoroquinolones. Mention the therapeutic uses of fluoroquinolones
2. Advantages and disadvantages of intravenous route
3. Define Anaphylaxis. write a note on the Management of Anaphylactic shock.
4. Anti-Septics and Disinfectants, that are commonly used in OT.

II .Short answers

(3x5=15)

5. Therapeutic indication of Losartan in Hypertension.
6. Mention the three differences of Crystalloids with colloids .
7. Rational behind using Deriphylline over Aminophylline
8. Define Pharmacopeias with examples.
9. Define Adverse event and Adverse effect of a Drug with examples.

Subject: Microbiology

Q P CODE: 5135

I Short notes (Answer any three question)

(5x3=15)

1. Define sterilisation. Write about chemical disinfectants
2. Hand hygiene
3. Passive immunity
4. What are the types of biomedical waste? Describe the principles of Biomedical waste management

II .Short answers

(3x5=15)

5. Name 3 infections transmitted by contaminated syringes
6. Enumerate infections caused by Staphylococcus
7. Define Type I hypersensitivity, Give examples
8. Sterilisation of Operation theatre
9. Articles sterilised in autoclave

PARAMEDICAL BOARD, BENGALURU

Operation Theatre 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: Biochemistry

Q P CODE: 5133

I Short notes (Answer any TWO question)

(5x2=10)

1. Define lipids and classify them with examples.
2. How and where urea synthesized? In which condition urea levels are increased in blood?
3. What are the factors affecting enzyme activity?

II .Short answers

(10 x 3=30)

4. Describe about Arrhenius concept of acids and bases.
5. Name any two heteropolysaccharides and their significance.
6. Classify phospholipids with examples.
7. Define rancidity and iodine number.
8. Name inorganic and organic constituents of normal urine
9. Mention any three clinically important enzymes of liver function.
10. Explain about creatinine clearance test.
11. Metabolic acidosis and alkalosis.
12. Biochemical functions and deficiency manifestations of niacin.
13. Enumerate the sources, RDA and biochemical functions of copper.

Subject: Pharmacology

Q P CODE: 5134

I Short notes(Answer any three question)

(5x3=15)

- 1.Enumerate the therapeutic uses and adverse effects ofDiazepam.
- 2.Classify local Anaesthetics . write the different routes of lignocaine administration
- 3.Aminoglycosides: Classify,Uses and Adverse effects
- 4.RationalebehindAntacids and Ranitidine in management of peptic ulcers.

II .Short answers

(3x5=15)

5. Contraindications of Morphine
- 6.Generic Drugs
- 7.Schedule F
8. Role of Vasopressors in management of Hypotension during Anaesthetics.usage.
9. Management of Digoxin toxicity

Subject: Microbiology

Q P CODE: 5135

I Short notes (Answer any three question)

(5x3=15)

1. Sources and reservoirs of healthcare associated infections
2. Define and classify immunity with examples
3. Enumerate moist heat methods of sterilisation. Describe the principle and uses of autoclave
4. Biomedical waste management

II .Short answers

(3x5=15)

5. Name 3 chemical disinfectants and their uses
6. Enumerate infections caused by Escherichia coli
7. Give examples of type IV hypersensitivity
8. Give the order in which personal protective equipment should be worn.
9. Mention modes of transmission of: Mycobacterium tuberculosis, HIV, HCV

PARAMEDICAL BOARD, BENGALURU

Operation Theatre 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: Biochemistry

Q P CODE: 5133

I Short notes (Answer any TWO question)

(5x2=10)

1. Classify carbohydrates with examples.
2. Isoenzymes
3. Liver function tests.

II .Short answers

(10 x 3=30)

1. Give three examples of pH indicators with their range.
2. Name the nucleotides present in DNA.
3. Enumerate three types of Jaundice.
4. Normal range of blood urea and serum creatinine.
5. Enumerate different enzymatic methods of blood glucose estimation.
6. Define and differentiate angina and myocardial infarction.
7. Name fat soluble vitamins
8. Define metabolic acidosis; write two causes of metabolic acidosis.
9. Define salts give one example each for deliquescent and hygroscopic salts.
10. Sucrose

Subject: Pharmacology

Q P CODE: 5134

I Short notes(Answer any three question)

(5x3=15)

1. Inhalational anaesthetic agents.
2. Fentanyl
3. Management of hypertensive crisis
4. What are the various routes of drug administration? Merits and demerits of intravenous route of drug administration.

II .Short answers

(3x5=15)

5. Drugs used in pre-anaesthetic medication
6. Name 3 beta lactam antibiotics
7. Adverse effects of corticosteroids.
8. Mention any 3 techniques of Local Anaesthetics
9. Mention 3 uses of Diazepam

Subject: Microbiology

Q P CODE: 5135

I Short notes (Answer any three question)

(5x3=15)

1. Louis pasteur
2. Commensal flora of respiratory tract
3. Fumigation of Operation Theater
4. Cell wall of bacteria

II .Short answers

(3x5=15)

5. Immune response
6. Mycobacterium tuberculosis
7. Candida
8. Features of a nosocomial pathogen
9. Universal precaution

PARAMEDICAL BOARD, BENGALURU

Operation Theatre Technology

Time: 3.00 HRS

Max Marks:100

GENERAL INSTRUCTIONS:

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Subject: Biochemistry

Q P CODE: 5133

I Short notes (Answer any TWO question)

(5x2=10)

4. Classify amino acids with examples.
5. Write the principle of blood gases estimation. Add a note on normal range of pO₂, pCO₂ and pH.
6. Renal function tests.

II .Short answers

(10 x 3=30)

7. Define acids and bases with examples.
8. Name three reducing monosaccharides.
9. Write normal range of any two liver enzymes.
10. Creatinine clearance test.
11. Write the principle of Glucose oxidase Peroxidase method of glucose estimation.
12. Enumerate the enzymes used as cardiac markers.
13. Name factors affecting enzyme activity.
14. Define metabolic alkalosis. Give two causes of metabolic alkalosis. What is the cause of a) Night blindness b) Pellagra c) Scurvy
15. Precipitation reactions of proteins.

Subject: Pharmacology

Q P CODE: 5134

I Short notes(Answer any three question)

(5x3=15)

1. Write the advantages and disadvantages of intravenous route of drug administration.
2. Write a note on pre anaesthetic medication.
3. Mention the uses and adverse effect of Metoclopramide.
4. Treatment of Hypertensive crisis.

II .Short answers

(3x5=15)

5. Mention any THREE techniques of Local Anaesthesia.
6. Write any THREE methods of OT fumigation.
7. Mention any THREE adverse effects of Succinylcholine.
8. Mention THREE uses of Diazepam.

Subject: Microbiology

Q P CODE: 5135

I Short notes (Answer any three question)

(5x3=15)

1. Robert Koch
2. Commensal flora of Urinary tract
3. Operation Theater sterility testing
4. Virulence factors of bacteria

II .Short answers

(3x5=15)

5. CMI
6. Clostridium tetani
7. Diagram of HIV and HIV screening test
8. Features of a nosocomial pathogen
9. Disposal of HBV contaminated material

PARAMEDICAL BOARD, BENGALURU

Operation Theatre 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: Biochemistry

Q P CODE: 5133

I Short notes (Answer any TWO question)

(5x2=10)

1. Classify proteins with examples.
2. Clinical significance of enzymes.
3. Abnormal constituents of urine.

II .Short answers

(10 x 3=30)

1. Define buffer, give two examples.
2. Enumerate lipoproteins present in blood.
3. Name the bile salts and bile pigments.
4. Define GFR, what is the normal range of GFR in healthy person.
5. Enumerate disadvantages of non enzymatic method of blood glucose estimation.
6. Name the different methods used for estimation of cholesterol.
7. Daily requirement of Iron, Calcium and Sodium.
8. Define respiratory acidosis give two causes.
9. Give three examples of polysaccharides.
10. Benedict's test.

Subject: Pharmacology

Q P CODE: 5134

I Short notes(Answer any three question)

(5x3=15)

1. Mention the advantages and disadvantages of inhalational route of drug administration.
2. Advantages and disadvantages of nitrous oxide.
3. Insulin preparations.
4. Treatment of anaphylactic shock

II .Short answers

(3x5=15)

5. What is eutectic mixture ? Write TWO uses.
6. Mention THREE advantages of Vecuronium.
7. Write any THREE advantages of Povidone Iodine.
8. Mention any THREE adverse effects of Fentanyl.
9. Name any THREE antihypertensive drugs.

Subject: Microbiology

Q P CODE: 5135

I Short notes (Answer any three question)

(5x3=15)

1. Koch's postulates
2. Commensal flora of Skin
3. Autoclave
4. Humoral immune response

II .Short answers

(3x5=15)

5. staining of Mycobacterium tuberculosis
6. Screening for HCV
7. Disposal of HCV contaminated material
8. Disinfectants used inside the OT
9. Cryptococci

PARAMEDICAL BOARD, BENGALURU

Operation Theatre 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: Biochemistry

Q P CODE: 5133

I Short notes (Answer any TWO question)

(5x2=10)

1. Classify lipids with examples.
2. Write the source, daily requirement, functions and deficiency manifestation of vitamin A.
3. Arterial blood gas analysis.

II .Short answers

(10 x 3=30)

4. Define indicators, give two examples.
5. What is the normal range of total proteins, albumin and globulin in plasma.
6. Biochemical findings in obstructive jaundice.
7. Specific gravity of urine- How is it calculated and what is the normal range.
8. Enumerate non enzymatic methods of blood glucose estimation.
9. Write three indications for doing lipid profile in patients.
10. Name the water soluble vitamins.
11. Define respiratory alkalosis, give two causes.
12. Name the essential fatty acids.
13. Rothera's test.

Subject: Pharmacology

Q P CODE: 5134

I Short notes(Answer any three question)

(5x3=15)

1. Write down the factors affecting oral absorption.
2. Inhalational anaesthetic agents.
3. Mention the uses and adverse effects of Metronidazole.
4. Treatment of hypoglycemia.

II .Short answers

(3x5=15)

5. Mention THREE advantages of inhalational route of administration.
6. Name any THREE group of drugs used in pre anaesthetic medication.
7. Mention THREE adverse effects of Metoclopramide.
8. Write any THREE uses of Midazolam.
9. Mention THREE uses of Vecuronium.

Subject: Microbiology

Q P CODE: 5135

I Short notes (Answer any three question)

(5x3=15)

1. Disinfectants used in hospital
2. Commensal flora of Vagina
3. Gas gangrene
4. Type-1 Hypersensitivity

II .Short answers

(3x5=15)

5. Immune response
6. Air sampling of OT
7. Disposal of AFB POSITIVE Sputum sample
8. capsule
9. Nosocomial pathogens

PARAMEDICAL BOARD, BENGALURU

Operation Theatre 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: Biochemistry

Q P CODE: 5133

I Short notes (Answer any TWO question)

(5x2=10)

1. Define enzyme. Classify enzymes with examples.
2. Explain Lowry-Bronsted theory of acids and bases. Classify acids and bases with examples.
3. Write the principle of electrolytes estimation. Add a note on normal range of Sodium, Potassium and Chloride.

II .Short answers

(10 x 3=30)

4. Define acidosis, Name the types of acidosis.
5. Name the essential amino acids.
6. Normal range of Total cholesterol, LDL-C and HDL-C in blood.
7. Name the clearance tests done in renal function tests.
8. Enumerate the advantages and disadvantages of Glucose oxidase Peroxidase method of blood glucose estimation.
9. Name the abnormal constituents of urine.
10. Isoenzymes of lactate dehydrogenase (LDH)
11. Classify metabolic acidosis, give two causes for each.
12. What do you mean by PUFA, give two examples.
13. Hay's sulfur test.

Subject: Pharmacology

Q P CODE: 5134

I Short notes(Answer any three question)

(5x3=15)

1. What are factors modifying drug action ?
2. Intravenous anaesthetic agents.
3. Mention the uses and adverse effects of Vecuronium.
4. Treatment of hypovolemic shock.

II .Short answers

(3x5=15)

6. Mention any THREE adverse effects of Aminoglycosides.
7. Name any THREE drugs used in peptic ulcer disease.
8. Mention any THREE techniques of Local Anaesthetics.
9. Mention any THREE uses of Paracetamol.

Subject: Microbiology

Q P CODE: 5135

I Short notes (Answer any three question)

(5x3=15)

1. Capsule
2. Commensal flora of intestine
3. Diagnoses of gas gangrene
4. Type-1 Hypersensitivity

II .Short answers

(3x5=15)

5. Nosocomial pathogens causing blood stream infections
6. HEPA filter in OT
7. Post exposure prophylaxis of HIV contaminated needle stick injury
8. Autoclave control
9. Disposal of HIV and HBV contaminated blood

PARAMEDICAL BOARD, BENGALURU

Operation Theatre 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: 5136

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Describe shoulder joint
2. Describe the anatomy of eye ball
3. Describe the popliteal fossa
4. Describe deltoid muscle
5. Describe the muscles of anterior abdominal wall

II. Short answers

10 X 3 = 30 marks

6. Classify connective tissue with examples
7. Give examples for long bones
8. Name the muscles in gluteal region
9. Give examples for synovial joints
10. Classify vertebrae
11. Name the extra ocular muscles
12. Name any 6 bones of skull
13. Name the contents of anterior triangle of neck
14. Name the carpal bones
15. Name the muscles in leg

Subject: Physiology

Q P CODE: 5137

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Myasthenia gravis
2. Functions of nerves
3. Write a note on ABO blood group system
4. ECG
5. Explain neuro muscular junction

II. Short answers

10 X 3 = 30 marks

6. List the hormones of adrenal gland
7. Define hypoxia and cyanosis. Normal values of hemoglobin content
8. Contraindications of blood transfusion
9. Types of neuralgia cells
10. Explain dead space
11. List the hormones of anterior pituitary
12. Define shock. Give normal values of cardiac output and stroke volume
13. Define blood pressure. Write the normal range of systolic and diastolic BP
14. Components of conducting system of heart.
15. Types of muscle

PARAMEDICAL BOARD, BENGALURU

Operation Theatre 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: 5136

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Describe hip joint
2. Describe the anatomy of nose
3. Describe the cubital fossa
4. Describe scapula bone
5. Describe the muscles of intercostal space

II. Short answers

10 X 3 = 30 marks

6. Give examples of cartilagenous joints
7. Give examples for flat bones
8. Name the muscles in front of arm
9. Name any 6 muscles of face
10. Name the muscles supplied by musculocutaneous nerve
11. Name the nerve supply of skin of hand
12. Name any 6 muscles attached to mandible
13. Name the contents of posterior triangle of neck
14. Name the tarsal bones
15. Name the branches of femoral artery

Subject: Physiology

Q P CODE: 5137

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Functions of kidneys
2. List functions of growth hormone.
3. Enumerate and briefly explain female contraceptive methods.
4. Draw a neat labeled diagram of neuron. Add a note on types of neuroglial cells
5. Defecation reflex

II. Short answers

10 X 3 = 30 marks

6. Component of female reproductive system
7. Enumerate types of muscle
8. Define cardiac out put. Normal values of cardiac out put & stroke volume
9. Muscle of inspiration
10. List the types of receptors.
11. Components of reflex arc
12. Landsteiner's law
13. Define active and passive transport
14. Explain facilitated diffusion along with diagram
15. List the plasma proteins. Normal value of WBC Count

PARAMEDICAL BOARD, BENGALURU

Operation Theatre 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.
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Subject: Anatomy

Q P CODE: 5136

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Write definition and classification of joints
2. Describe the anatomy of tongue
3. Describe the anatomy of breast
4. Describe the arteries of upper extremity
5. Describe the mandible bone

II. Short answers

10 X 3 = 30 marks

6. Name the muscles of thigh
7. Name the muscles in neck
8. Name the arteries in lower extremity
9. Name any 6 muscles attached to scapula
10. Name the muscles supplied by radial nerve
11. Name the nerve supply of skin of foot
12. Name layers of eyeball
13. Name the muscles of anterior abdominal wall
14. Definition of anatomical position
15. Name the contents of femoral triangle

Subject: Physiology

Q P CODE: 5137

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Functions of blood
2. Explain Landsteiner's law. List indication of blood transfusion
3. Draw a neat labeled diagram of lung volume and capacities
4. Explain ratification respiration
5. Add a note on cardiac cycle

II. Short answers

10 X 3 = 30 marks

6. List the blood indices
7. Classify WBC's
8. Anticoagulants. Write normal value of BT & CT
9. List the Cellular organelles
10. Define anemia. Normal value of HB content
11. Define ESR. List the methods of estimation of ESR
12. Explain endocytation. With a neat labeled diagram
13. Muscle of inspiration. Give normal value of tidal volume
14. Hemophilia. Normal value of platelet count
15. List the plasma protein

PARAMEDICAL BOARD, BENGALURU

Operation Theatre 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: 5136

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Describe the anatomy of inguinal canal
2. Describe the knee joint
3. Describe the sternocleidomastoid muscle
4. Describe the veins of lower extremity
5. Describe the femur bone

II. Short answers

10 X 3 = 30 marks

6. Name the nerves of upper extremity
7. Name the muscles in arm
8. Write about femoral canal
9. Name the joints of upper extremity
10. Name the muscles supplied by obturator nerve
11. Name the contents of popliteal fossa
12. Name the muscles of tongue
13. Write about elbow joint
14. Name the muscles of pectoral region
15. Name the contents of axilla

Subject: Physiology

Q P CODE: 5137

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Transport of oxygen
2. Synaptic transmission
3. List the pituitary hormones. Add a note on gigantism
4. Composition of pancreatic secretion
5. Explain menstrual cycle

II. Short answers

10 X 3 = 30 marks

6. Composition of saliva
7. Erythroblastosis fetalis
8. Indication of blood transfusion
9. Composition of conducting system of heart
10. Intrauterine contraceptive devices.
11. List the thyroid hormones. Note on hypothyroidism
12. Landsteiner's law
13. Classify WBC's
14. List the Pituitary hormones
15. List the blood indices

PARAMEDICAL BOARD, BENGALURU

Operation Theatre 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: 5136

I. Short notes, answer any FOUR questions. 4 X 5 = 20 marks

1. Classify bones with examples
2. Write about the ear
3. Describe the gluteus maximus muscle
4. Describe the veins of upperextremity
5. Describe the humerus bone

II. Short answers 10 X 3 = 30 marks

6. Name the nerves of brachial plexus
7. Name the muscles in hand
8. Name parts of hip bone
9. Name the joints of lower extremity
10. Name the muscles supplied by femoral nerve
11. Name the contents of cubital fossa
12. Name the bones and cartilages of nose
13. Write about adductor canal
14. Name the contents of femoral sheath
15. Name the nerves of tongue

Subject: Physiology

Q P CODE: 5137

I. Short notes, answer any FOUR questions. 4 X 5 = 20 marks

1. Explain cross matching. Note on contraindication of blood transfusion.
2. List the pregnancy tests. explain contraceptive.
3. Explain composition & pen chino of CSF methods in male.
4. Explain compliance. Add a note surface tension & surfactant.
5. Draw a neat labeled diagram of nephron Add a note on characteristic tea hereofrenal circulation.

II. Short answers 10 X 3 = 30 marks

6. List the hazards of mismatched blood transfusion.
7. Respiratory distress syndrome.
8. Define Tidal volume. Give its normal value.
9. Functions of saliva.
10. List the indications of blood transfusion.
11. Types of neuroglial cells.
12. Define cardiac output. Write its normal
13. Components of reflexes are
14. List the hormones of adrenal cortex.
15. Muscles of inspiration.

PARAMEDICAL BOARD, BENGALURU

Operation Theatre 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: 5136

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1.Heart
- 2.Gall bladder
- 3.Ovary
- 4.Cerebrum
- 5.Spleen

II. Short answers

10 X 3 = 30 marks

- 6.Name the lymphoid organs
- 7.Name the parts of urinary system
- 8.Give the functions of kidney
9. Name the bones of thoracic cage
10. Name the bones of skull.
11. Name any 3 anatomical terms related to joint movements
- 12.Name the joints of lower limb.
- 13.Enumerate the cells of connectivetissue
- 14.Name the types ofepithelium
- 15.Name the parts of femur

Subject: Physiology

Q P CODE: 5137

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. What is Menstrual cycle. Write about different phases of Menstrual cycle with their hormonal basis
2. Theories of mechanism of production of anaesthesia
3. Mechanisms of transport across cell membrane
4. Erythropoiesis
5. Composition and functions of Saliva

II. Short answers

10 X 3 = 30 marks

6. Oxymetry
7. Define cyanosis. Mention types of cyanosis
8. What is Acid Base balance? Name the organ systems involved in Acid Base balance
9. Functions of CSF
10. Draw a neat labeled diagram of cell
11. Anticoagulants
12. Movements of large intestine
13. Define stroke volume, cardiac output and blood pressure
14. Significance of geriatric physiology
15. Cell aging

PARAMEDICAL BOARD, BENGALURU

Operation Theatre Technology

Time: 3.00 HRS

Max Marks:100

GENERAL INSTRUCTIONS:

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

Subject: Anatomy

Q P CODE: 5136

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1.Lungs
- 2.Cerebrum
- 3.Kidney
- 4.Liver
- 5.Uterus

II. Short answers

10 X 3 = 30 marks

- 6.Bones of foot
- 7.Joints of thoracic cage
- 8.Types of Connective tissue
- 9.Deltoid muscle
- 10.Parts of vertebra
- 11.Functions of thymus
- 12.Contents of orbit
- 13.Parts of pituitary gland
- 14.Name Anatomical planes.
- 15.Name of organs of Male reproductive system

Subject: Physiology

Q P CODE: 5137

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Drainage of CSF
2. Actions of insulin
3. Define GFR. Explain Auto regulation of GFR
4. Conducting system of Heart
5. Chemical regulation of Respiration

II. Short answers

10 X 3 = 30 marks

6. Reflex arc
7. Functions of intestinal secretions
8. Golgi apparatus
9. Functions of RBC
10. Types of neuroglial cells
11. Temperature regulation by skin
12. Functions of testis
13. Indications of CSF tapping
14. List hormones of anterior pituitary gland
15. Name plasma proteins

PARAMEDICAL BOARD, BENGALURU

Operation Theatre 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: 5136

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Stomach
2. Kidney
3. Cerebrum
4. Liver
5. Heart

II. Short answers

10 X 3 = 30 marks

6. Name six cranial nerves
7. Name the meninges
8. Name branches of brachial plexus
9. Functions of Thyroid gland
10. Parts of scapula
11. Joints of Lower limb
12. Types of simple epithelium
13. Contents of intercostal space
14. Bones of Hand
15. Parts of pancreas

Subject: Physiology

Q P CODE: 5137

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Hormonal response to stress
2. Changes during pregnancy
3. Structure and functions of cardiac muscle
4. Lung compliance
5. Composition and functions of pancreatic juice

II. Short answers

10 X 3 = 30 marks

6. Types of sensory receptors
7. Functions of nerves
8. Formation of hemoglobin
9. Differences between ECF and ICF
10. Facilitated diffusion
11. Stem cells
12. Name abnormal patterns of breathing
13. CPR
14. List pancreatic hormones and cells releasing them
15. Non renal functions of kidney

PARAMEDICAL BOARD, BENGALURU

Operation Theatre 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: 5136

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Heart
2. Trachea
3. Testis
4. Uterus
5. Kidney

II. Short answers

10 X 3 = 30 marks

6. Functions of Uterus
7. Parts of gastrointestinal system
8. Function of thoraco abdominal diaphragm
9. Parts of Pancreas
10. Names Three basic tissues
11. Organs of Hearing
12. Functions of lungs
13. Organs of lymphatic system
14. Functions of suprarenal gland.
15. Parts & functions of stomach.

Subject: Physiology

Q P CODE: 5137

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Composition and functions of plasma proteins
2. Mechanism of transport across cell membrane
3. Actions of growth hormone
4. Describe structure of Neuromuscular junction
5. Composition and functions of bile

II. Short answers

10 X 3 = 30 marks

6. Contraceptive methods in males
7. Changes in skeletal system in old age
8. Importance of Intracranial pressure
9. AV Node
10. Functions of Surfactant
11. Non renal functions of kidney
12. List adrenal cortical hormones
13. Cyanosis
14. Differences between skeletal and cardiac muscle
15. Differences between ECF and ICF

PARAMEDICAL BOARD, BENGALURU

Operation Theatre 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: 5136

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Urinary bladder
2. Liver
3. Stomach
4. Spinal cord
5. Heart

II. Short answers

10 X 3 = 30 marks

6. Names of the fibers of connective tissue
7. Name some cranial nerves
8. Mention arteries of upper limb
9. Functions of skin
10. Contents of orbit
11. Contents of axilla
12. Parts of female reproductive system
13. Joints of lower limb
14. Bones of Hand
15. Organs of lymphatic system

Subject: Physiology

Q P CODE: 5137

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Shock
2. Composition and functions of surfactant
3. Contraceptive methods in females
4. Indications and contraindications of blood transfusion
5. Functions of spinal cord

II. Short answers

10 X 3 = 30 marks

6. What is Acid Base balance? List the organ systems involved with the same
7. Osmosis
8. Functions of plasma proteins
9. What is Negative feedback mechanism? Give examples
10. Define stroke volume and cardiac output. Give their normal values
11. Functions of respiratory system
12. Define receptors. Mention any 3 types of sensory receptors
13. Functions of Saliva
14. Composition of CSF
15. Movements of small intestine

PARAMEDICAL BOARD, BENGALURU

Operation Theatre 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: 5136

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Cartilage
2. Stomach
3. Dermatomes
4. Mammary gland
5. Bony orbit

II. Short answers

10 X 3 = 30 marks

6. Name coverings of brain
7. Name 3 muscles of Larynx
8. First rib
9. Bronchopulmonary segments
10. Appendix
11. Arch of Aorta
12. Functions of Spleen
13. Parts of spinal cord
14. T.S of spinal cord
15. Parts of Fallopian tube

Subject: Physiology

Q P CODE: 5137

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. What is the difference between diffusion and osmosis? Give an example for each.
2. Explain the basis for classification of blood groups.
3. Enumerate the posterior pituitary hormones Describe their actions
4. Describe conducting system of the heart. Explain the pathway of spread of cardiac impulse
5. Describe the role of chemoreceptors in regulation of blood pressure.

II. Short answers

10 X 3 = 30 marks

6. What is withdrawal reflex.
7. What is cretinism?
8. Describe steps in hemoglobin synthesis
9. Ejection fraction.
10. Bohr's effect
11. Asphyxia.
12. Thyroid function tests.
13. What is Bell-Megendie's law? What is exception to this law?
14. Enumerate the hormones secreted by adrenal cortex.
15. Enumerate renal function tests.

PARAMEDICAL BOARD, BENGALURU

Operation Theatre Technology

Time: 3.00 HRS

Max Marks:100

GENERAL INSTRUCTIONS:

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

Subject: Anatomy

Q P CODE: 5136

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Joints -classify with examples
2. Right Atrium
3. Facial Nerves
4. Diaphragm
5. Liver

II. Short answers

10 X 3 = 30 marks

6. Branches of trigeminal Nerves
7. Median cubital vein
8. Boundaries of Axilla
9. Ureter
10. Parts of Femur
11. Types of Neuron
12. Types of muscles
13. Aponeurosis
14. Hilum of lungs
15. Hormones of Pituitary gland

Subject: Physiology

Q P CODE: 5137

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Describe the various methods of transport across the cell membrane.
2. Describe the different steps of phagocytosis
3. Mention the functions of Mitochondria, Golgi apparatus, Ribosomes, Lysosomes
4. Enumerate the posterior pituitary hormones Describe their actions
5. Describe conducting system of the heart. Explain the pathway of spread of cardiac impulse

II. Short answers

10 X 3 = 30 marks

6. Describe classical hemophilia.
7. Write briefly the importance of blood groups.
8. Ejection fraction.
9. Describe the mechanism of action of insulin.
10. What is the ICF volume and ECF volume
11. Define homeostasis
12. Diuretics
13. Plasma cells.
14. What is apoptosis
15. Name functions of rods and cones.

PARAMEDICAL BOARD, BENGALURU

Operation Theatre 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: 5136

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Uterus
2. Classify Bones, with example
3. Mammary gland
4. Cervical Plexus
5. Intercostal space

II. Short answers

10 X 3 = 30 marks

6. Great Saphenous Vein
7. Name 3 arteries of lower limb
8. Neuron
9. Give 3 examples for Synovial joint
10. Stratified Epithelium
11. Cardiac muscles
12. Gall bladder
13. Name 3 cranial Nerves
14. Parts of large intestine
15. Name 3 Nerves of upper limb

Subject: Physiology

Q P CODE: 5137

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. What is the difference between of diffusion and osmosis? Give an example for each.
2. Explain the basis for classification of blood groups.
3. Enumerate the posterior pituitary hormones Describe their actions
4. Classify nerve fibers based on velocity & diameter. Mention the factors influencing condition of velocity of nerve impulse.
5. Describe conducting system of the heart. Explain the pathway of spread of cardiac impulse

II. Short answers

10 X 3 = 30 marks

6. What is the normal calcium level in blood?
7. Four actions of thyroxin
8. Coagulation factors.
9. Name four immunoglobulins. Which one concerned with allergy.
10. What is bradycardia?
11. Draw and label a synapse.
12. Tests for pregnancy.
13. Waves of ECG.
14. Name the tests for detecting hearing loss
15. Tests for pregnancy.

PARAMEDICAL BOARD, BENGALURU

Operation Theatre 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: 5136

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Urinary bladder
2. Types of Muscles
3. Cerebellum
4. Venous drainage of lower limb
5. Mediastinum

II. Short answers

10 X 3 = 30 marks

6. Paranasal air sinuses
7. Parts of brain stem
8. Name 3 muscles of upper limb
9. Thoracic duct
10. Hormones of Thyroid gland
11. Patella
12. Histology of lymph node
13. Name appendicular Bones
14. Give examples of Elastic cartilage
15. Branches of Abdominal Aorta

Subject: Physiology

Q P CODE: 5137

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. What is anemia? Describe different types of anemia with their physiological causes
2. What is ECG? Enumerate the various various ECG leads with a suitable diagram
3. Describe the various methods of transport across the cell membrane.
4. Describe the different steps of phagocytosis.
5. Describe the mechanism of formation of concentrated urine

II. Short answers

10 X 3 = 30 marks

6. Describe classical hemophilia.
7. Write briefly the importance of blood groups
8. Describe the mechanism of action of insulin.
9. What is bradycardia?
10. Actions and secretion of parathormone
11. List six functions of kidneys.
12. Properties of cardiac muscle.
13. What is apoptosis
14. Functions of ovary.
15. Myasthenia gravis

PARAMEDICAL BOARD, BENGALURU

Operation Theatre 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: 5136

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Right Atrium
2. Cells of connective tissue
3. Brachial Plexus
4. Dermatomes
5. Ovary

II. Short answers

10 X 3 = 30 marks

6. Superior Venacava
7. Name 2 Sesamoid bones
8. Name 2 fontanel
9. Name 3 cranial Nerves
10. Name 3 openings of Diaphragm
11. Pulmonary ligament
12. White fibro cartilage
13. Types of Neurons
14. Name 3 lower limb bones
15. Name 4 types of Vertebra

Subject: Physiology

Q P CODE: 5137

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Describe the effects of hypersecretion of growth hormone.
2. Describe hypoxia. Classify hypoxias
3. Describe the various methods of transport across the cell membrane.
4. Describe steps in hemoglobin synthesis add a note on disorders of hemoglobin synthesis. Mention two types of hemoglobinopathies
5. Describe conducting system of the heart. Explain the pathway of spread of cardiac impulse

II. Short answers

10 X 3 = 30 marks

6. Describe the mechanism of action of insulin.
7. Name the tests for detecting hearing loss
8. SA node as pacemaker
9. Presbiopia and its correction.
10. Name four immunoglobulins. Which one concerned with allergy.
11. Ejection fraction.
12. Ovulation
13. Waves of ECG.
14. What is bradycardia?
15. Draw and label a synapse.