



GOVERNMENT OF JAMMU AND KASHMIR,
SERVICES SELECTION BOARD, JAMMU.

Notice

It is hereby notified for the information of all the candidates who have applied for the posts mentioned below that the syllabi along with distribution of marks has been framed and is published at Annexure A to this notice.

- i) X-Ray Technician
- ii) Dental Assistant
- iii) Jr. Legal Assistant/Legal Assistant
- iv) Theatre Technician

Secretary,
J&K Services Selection Board,
Jammu.

Dated:25-04-2014.

No. SSB/ /Sel/Secy/2014/3000-15

1. Copy to the: -
2. Financial Commissioner, Revenue, J&K Govt., Jammu.
3. Financial Commissioner, Industries and Commerce, J&K Govt., Jammu.
4. Principal Secretary to the Hon'ble Chief Minister J&K.
5. Principal Secretary to the Hon'ble Governor, J & K State.
6. Divisional Commissioner, Jammu, Kashmir for information.
7. All Board Members for Information.
8. Director Information, J&K Government Jammu with the request to publish the said notification in at least three leading local newspaper of Jammu/Srinagar on three consecutive dates.
9. Director, Radio Kashmir, Jammu. He is requested to kindly broadcast the above said notification appropriately.
10. Director, Doordarshan Jammu. He is requested to kindly telecast the above said notification appropriately.
11. Deputy Secretary/Administrative Officer, J&K Services Selection Board, Jammu /Srinagar.
12. Sr. Law Officer, J&K S.S.B, Jammu.
13. Principal Pvt. Secretary to Chief Secretary J&K Government, Jammu.
14. Pvt. Secretary /P.A to Secretary, General Administration Department, Civil Secretariat, Jammu.
15. Pvt Secretary to Chairperson SSB, for information of the Ld. Chairperson.
16. Incharge Website for uploading of the Notice on the official website of the Board.



Government of Jammu and Kashmir
J&K Services Selection Board
(www.jkssb.nic.in)

Annexure "A"

Max time:-150
Time:-2.30 Hours

X-RAY Tech.

1)ANOTMY AND PHYSIOLOGY

20 Marks

GENERAL:

- a) Introduction to the Human body. Terms used in Anatomy, (Surface anatomy, markings and locations of different body parts and important body planes.
- b) Planes and Regions of Thoracic, Abdominal and pelvic Cavities.

Cardiovascular System.

Heart, pericardium, Arterial system, Venous system, Capillary, systemic circulation.

Digestive System:

Mouth , oesophagus, stomach, small intestine, large intestine, spleen, liver, Salivary Gland , Gall Bladder, pancreas, Physiology and Digestion Absorption and Assimilation of Food.

Respiratory System:

Noise , pharynx, larynx, trachea, Bronchi, lungs, pleura, physiology of Respiration-Expiration and Inspiration, Internal and External Respiration, Breathing control, vital capacity . Tidal volume and Dead space.

Reproductive system:

- a) Male Reproductive system: Male Reproductive organs, Spermatogenesis, Testosterone and Secondary sexual characters.

b) Female Reproductive System: Vulva, internal reproductive organs menstrual cycle, ovarian hormones & Female breast.

Excretory System:

Introduction to Excretory body organs, structure of kidneys , ureters, Urinary, Bladder, Urethra, Physiology of filtration Reabsorption and secretion.

Nervous System:

Brain Meninges , ventricles spinal cord nerves and cerebro spinal fluids.

Endocrine system -

Definition, Pituitary Gland, Pineal gland. Thymus Gland Adrenal Glands Thyroid, Parathyroid Glands.

Sense Organs-

Structure and function of Eye , Skin , Ear and Tongue.

Musculoskeletal System-

Skull, vertebral column, shoulder girdle, Thoracic cage. Bones upper limbs , Bones of lower limbs, type of bony joints and movements.

2) Transformers-

20 Marks

Principles construction of step up & down and Auto transformers, construction of high tension Transformers rectification . Self rectification.

X-Ray

Production of x-ray, properties, interaction with matter (Photo electric compton effect and pair production) luminescent effect, photographic effect, ionizing effect & biological effects.

Units and Measurements of X-Rays-

Ionization, Roentgen, Rad Rem, R.B.E. Radiation badges, ionization chambers.

x-Ray Tube-

Construction of x-ray tube Targets, cooling and insulation , x-ray circuits, timers and rectifiers in x-ray, circuits, inter locking circuits, stationary and Rotatory anode tube.

Quantity and Quality x-ray , H.V.T or VVL linear absorption coefficient grids, cones cylinders, filters, focal spot size LBD FFD or LSD and OFD

Fluoroscopy and Image intensifier

3)Radiographic photography Techniques- 30 Marks

(Dark room Techniques)

Dark Room-

Definition and location of dark room, ideal design of dark room , light and radiation protection devices , safe light test, ventilation, dry and wet benches, Duplicator.

Radiographic Films-

Ortho-chromatic films , panchromatic films, Base, Bonding layer, emulsion and super coating of films. Non screen films CTA base and polyester base films. The structure of Double coated & single coated film.

X-Ray Cassettes-

Construction of various cassettes, cassettes care, mounting of intensifying screen in cassettes.

Intensifying screens-

Luminescence (Phosphorescence and fluorescence) construction of screens. Type of phosphors and pigments film screen contact, speed of screens-slow parfast care of intensifying screens . Intensification factors numeral proof and rare earth screens.

a)Mounting of intensifying screens.

b) Screen film contact.

Film Processing-

Auto processing material for processing equipment and annual processing control on temperature chemical in Dark room the PH Scale.

- a) X-ray Developer
- b) X-Ray Fixer
- c) Film Rinsing Washing & Drying
- d) Preparation of processing chemicals, loading and unloading of cassettes,

Presentation of Radiograph-

record filling and report distribution.

Film Artifacts-

Definition, type and causes of radiation and photographic artifacts, factors affecting the quality control of radiograph.

4) Radiographic General Procedures

30 Marks

Introduction- The Radiographic image (image formation, magnification image Distortion, Image sharpness, Image contrast) Exposure factor and Anatomical Terminology.

Skeletal System-

- Upper Limb- Procedure for thumb, fingers, meta carpals, hand carpometacarpel joints, wrist joint, carpo-radio-ulnar joint, forearm, elbow joint, arm, special views for scaphoid bone, olecranon process, supra condylar projection in various type of injured patients.
- b) Lower limb- Procedure for toes, meta tarsals, complete foot, talar calcaneal, talo calcaneal joint, leg with ankle joint leg with knee joint, thigh with hip joint.
- c) Shoulder Girdle and Bony thorax- Procedures for scapula clavicle and head of humerus sternoclavicular joint, special views

for clavicle. Head of humerus and scapula in various types of injured or dislocation cases.

- d) Vertebral Column- Normal curvature relative levels of vertebrae, procedures for atlanto-occipital joint, odontoid process, cervical spine , cervicodorsal spine , dorsal spine, dorso-lumbar spine, and spondylolysis.

Chest -

Procedures for chest at six feet, lying down and erect positions, inspiration and expiration views , special views like lordotic , decubitus, MMR portable teleradiography, chest in pregnancy. High Kilovoltage technique.

Abdominal Pelvis-

Preparation for procedure, procedure for upper abdomen, lower abdomen, KUB Gallbladder Stomach , small intestine and large intestine in supine and erect position, special views in case of perforation etc.

Sinus-

Procedures for paranasal sinuses, (frontal, ethmoid, sphenoid and maxillary sinuses).

Soft Tissue Radiography-

Procedures for STM , STN abdomen and other body organs.

inletogram procedures, manipulation of positions, immobilization , exposure, FFD in abnormal conditions of patients.

Hospital Practice and Care of patients-

Set up of radiology department in Hospital, Hospital staffing and organization . Patients registration , record filling , cases put up and dispatch devices, medico legal aspect of profession . Professional relationship of radiographer with patient and organization staff.

5) Special Investigation

20 Marks

Urinary Tract-

Plain Radiographs for UB Intravenous pyelograph, (IVP or IVU) Retrograde pyelography, Micturiting -cystourethrogram, Retrograde Urethrogram

Gastro-Intestinal Tract-

Plain Radiographs, abdomen, Barium Swallow, Barium UGI Ba meal ET, Ba Enema, double contract Ba enema and instant Ba enema, Miscellaneous Procedures, Gastrografin study, fluoroscopy,

Biliary Tract-

Introduction to biliary contrast media plain radiographs upper abdomen, oral cholecystography (OCG) endoscopic Retrograde cholangiography (ERCP)

HSG

Fistulogram

Sinogram

6) Basic principle and application of computerized tomography, ultrasound Magnetic resonance Imaging, Computer Radiography and Digital Radiography

20 Marks

7) Contrast Agents, Contrast Reaction and their management, Emergency Drugs used in Radiology Department

10 Marks

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Annexure "A"

Max time:-150
Time:-2.30 Hours

DENTAL ASSISTANT

General Human Biology & Disease: -

20 Marks

1. Elementary Physics and Chemistry.
2. Characteristics of living matter.
3. The Structure of living matter.
4. The Tissues
5. Systems and various parts of human body.
6. Development and types of Bones.
7. Bones of Head & trunk.
8. Bones of the Limb.
9. Joints and Articulations
10. Structure and Action of muscles
11. The Chief Muscles of the Body
12. The Blood
13. The heart and Blood Vessels
14. The Circulatory system
15. The Respiratory System
16. The Digestive System
17. The Liver , Biliary system and -----
18. Nutrition and Metabolism
19. Endocrine Glands and Exec-----
20. The Urinary System
21. The Nervous system.
22. The Ear.
23. The Eye

24. The Skin

25. The Reproductive System etc.

Dental Anatomy & Physiology Pharmacology, Pathology including Microbiology.

General & Dental Anatomy.

15 Marks

- Elementary Knowledge of the jaws and teeth, Important between deciduous and permanent teeth. Chronology of eruption , elementary knowledge of occlusion of teeth. Relationship of teeth with investing tissues, muscles of mastication facial expressions and elementary knowledge of temporary mandibular joints.

General & Dental Physiology and Histology.

15 Marks

- Elementary knowledge of the structure and function of various dental and oral tissues e.g. gingival, peridontial membrane, alveolar process , cementum, enamel,dentine, mucous-membrance , pulp.
- Salivary glands and functions of saliva, mastication.

General and Dental Pharmacology.

05 Marks

- The therapeutics of drugs commonly used in dentistry and their effects. Practical diagnosis, dispensing of drugs.

Dental Radiology

05 Marks

- _Technical aspect of Dental Radiograph i.e. the taking processing and mounting of Dental Radiographs , Radiation Hazards and protection against radiation.
- GENERAL DENTISTRY INCLUDING ORAL SURGERY.

40 Marks

Chairside Assistants.

1. Reception of Patient.
2. Lay -out of reception room and Dental Surgery and Hygienist Clinic.
3. Chairside Assistance and Techniques
4. Local anesthesia and equipment.
5. Methods of Sterilization and care of Dental Instruments.
6. Basic principles in surgery.
7. The use of instruments in Dental practice.
8. Examination of Oral Cavity and Charting of teeth etc.
9. Instructions to patients and recalls.
10. Maintenance of Dental Unit/Instrument.

PROSTHODONTICS WITH COSMETOLOGY.

15 Marks

1. Introduction and applied anatomy.
2. History taking and Examination.
3. Simple surgical preparation, impression taking.
4. Selection of patient.
5. Phonetics and anatomical articulation.
6. Clasp retained partial denture-plan , treatment, design and management.
7. Partially edentulous arches.
8. Connectors- major and minor and functions.
9. Retainers direct and indirect.
10. Dentures functions, biomechanics, Survey, diagnosis, planning , partial and temporary relining, resilient lining , aids to retention and relief.

11. Cosmetology and appearance.

12. Dental Materials and its manipulation.

ORTHODONTICS: -

10 Marks

1. Etiology, Classification and malocclusion.
2. Skeletal maturation, growth, dentition with special reference to endocrines.
3. Classification of dentofacial abnormalities , anthropometrics, cephalometrics.
4. Examination of patient, differential diagnosis and treatment planning .
5. Principle of mechanotherapy
6. Basics about tweed method, twin wire appliance, activators , plates appliances including tissue reaction and evaluation of treatment.

GENERAL HYGIENE, NUTRITION, COMMUNITY WELFARE,
CONSERVATIVE & PREVENTIVE DENTISTRY.

DENTAL HYGIENE AND ORAL PROPHYLAXIS

15 Marks

1. Definition of Hygiene.
2. Objective of Dental Hygiene.
3. Oral prophylaxis-various methods.
4. Stains on teeth-and their management.
5. Dental Plaque, Dental calculus.
6. Brief description and the role of oral Prophylaxis in Gingivitis, Peridontitis etc.

CLINICALS: -

1. Instruments, technique of Oral Prophylaxis.
2. Polishing of teeth.
3. Topical application of fluorides.
4. Care of Oral Cavity and appliances during treatment of Maxillo-facial cases.

CONSERVATIVE & PREVENTIVE SURGERY.

10 Marks

1. Dental Caries-Prevalence and Prevention.
2. Peridontial Diseases, saliva in relation to Dental Health and diseases.
3. Dental Health & Diseases.
4. Dietary habits and dental Health , Malocclusion , Oral Cancer.

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Annexure "A"
LEGAL ASSISTANT/JUNIOR LEGAL ASSISTANT

SYLLABUS FOR WRITTEN TEST

MAX. MARKS: 150

Time: 2.30 hrs

CONSTITUTIONAL LAW:

20 Marks

- Salient features of Indian Constitution.
- Parliamentary form of Government.
- President of India- Election, Qualifications, Impeachment, Position, Powers and Privileges.
- Cabinet System, Collective responsibility-Individual responsibility, President-Prime Minister relationship.
- Principles
 - Distribution of Legislative Powers (Art. 245, 246 & 254)
 - Failure of Constitutional Machinery (Art. 356)
 - J&K Special Status (Art. 370)
- Constitutional Amendments – Methods and limitation (Art. 368)
- Freedom of Trade and Commerce
- Regulatory and Compensatory measures (Articles 301-304).
- Articles 141 and 143.
- Appointment and impeachment of the Judges of the High Courts and Supreme Court.
- Services under the Constitution- Doctrine of Pleasure (Art. 310), Restrictions (Art. 311)
- Fundamental Rights (Articles 14-16, 19-22 and 25-30).
- Constitutional remedies.
- Writ Jurisdiction
 - Scope of Article 32
 - Scope of Article 226
- Directive Principles of State Policy; Relationship between Directive Principles and Fundamental Rights.
- Emergency Provisions: Arts 352 to 354, 358 and 359.

ADMINISTRATIVE LAW:

15 Marks

- Classification of Administrative Action:
 - Definition of administrative actions.
 - Need for classification
 - Identification of legislative action
 - Identification of quasi-judicial and administrative actions.
 - Legislative powers of administration.
 - Necessity for delegation of legislative powers and its constitutional validity.
- Principles of Natural Justice:
 - (a) No man shall be judge in his own cause.
 - (b) No man shall be condemned unheard.
- Administrative Discretion
 - Need for Administrative Discretion
 - Administrative Discretion and rule of law
 - Need for safeguards.
- Doctrine of Excessive Delegation of Discretion
 - Constitutionality of discretionary powers
 - Administrative discrimination and arbitrariness
- De tournament De prevoir
 - Malafide exercise of discretion
 - Improper purpose
 - Irrelevant considerations
 - Unreasonableness

- *Non-exercise of discretionary powers*
- *Liability of the Government*
 - *Statutory- immunity*
 - *Act of State*
 - *Contractual liability of Government*
 - *Government privileges in legal proceedings*
 - *Public accountability*
- *Ombudsman*
- *Vigilance Commission.*

MUSLIM LAW:

05 Marks

- *Sources and Schools of Muslim Law.*
- *Nature, scope, validity and classification of marriage under Muslim Law*
- *Polygamy, Divorce and matrimonial remedies under Muslim Law*
- *Dissolution of Muslim Marriage Act, 1939.*
- *Maintenance under section 125 of the Code of Criminal Procedure, 1973.*
- *Maintenance under Muslim Women (Protection of Rights on Divorce) Act, 1986*

HINDU LAW:

05 Marks

- *Nature, concept and essential conditions of Hindu Marriage.*
- *Grounds of divorce and divorce by mutual consent under Hindu Law*
- *Matrimonial remedies under Hindu Law:*
 - *Nullity of marriage*
 - *Restitution of conjugal rights*
 - *Judicial separation*
 - *Dissolution of marriage*
- *Joint family and coparcenary under Mitakshara law*
- *Karta-his powers, privileges and obligations.*
- *Adoption and Guardianship.*

Law of Contract

15 Marks

- *Agreement and contract – Definitions, elements and kinds.*
- *Proposal and acceptance: their various forms, essential elements, communications and revocation.*
- *Intention to create legal relationship.*
- *Consideration: its need, meaning, kinds, essential elements-privy of contract, promissory estoppel, exceptions to consideration; adequacy of consideration; present, past and executory consideration; unlawful consideration and its effects; views of Law Commission of India on consideration; evaluation of the doctrine of consideration.*
- *Capacity to contract: meaning, definition of minor, necessities supplied to a minor, agreements beneficial and detrimental to a minor affirmation- restitution in cases of minor's agreement- fraud by minor- agreements made on behalf of a minor's agreement and tested-evaluation of the law relating to minor's agreement.*
- *Quasi-contracts of certain relations resembling those created by contracts*
- *Damages: kinds- Remoteness of damages- ascertainment of damages.*
- *Specific performance of contracts.*
- *Contract that can be specifically enforced.*
- *Rescission and cancellation.*
- *Injunction.*
- *Indemnity: Definition, nature and extent of liability of the indemnifier, commencement of liability of the indemnifier.*
- *Guarantee: Definition, basic essentials for a valid guarantee contract, Nature and extent of surety's liability, discharge of surety's liability.*
- *Bailment: Definition, kinds of bailees, duties of bailor and bailee towards each other, rights of bailor and bailee, finder of goods as a bailee.*
- *Agency: Kinds of agents and agencies; Distinction between agent and servant; Essentials of agency transaction; Various methods of creation of agency; delegation.*
- *Sale of Goods: Concept of sale as a contract; Essentials of a contract of sale; Implied terms in contract of sale; Rule of Caveat Emptor and the exceptions thereto; Changing concept of Caveat Emptor; Unpaid seller and his rights.*

Company Law

10 Marks

- *Concept of registration and incorporation; Memorandum of Association, Doctrine of ultra vires; Articles of Association; Doctrine of constructive notice and indoor management; Prospectus-statement in lieu of prospectus;*
- *Promoters- position, duties and liabilities;*
- *Directors- position, appointment, qualifications, vacation of office, removal, resignation, powers and duties of directors; meeting registers, loans, remuneration of directors, role of nominee directors- compensation for loss of office- managing directors- compensation for loss of office- managing directors and other managerial personnel;*
- *Meetings- kinds- procedure- voting;*
- *Debentures- meaning- fixed and floating charge- kinds of debentures- shareholder and debenture holder- remedies of debenture holders.*
- *Protection of minority rights.*
- *Winding up- types- by court- reasonable- grounds- who can apply- power of court- consequences of winding up order- voluntary winding up by members and creditors- winding up subject to supervision of courts- liability of past members- payment of liabilities- preferential payment, unclaimed dividends, winding up of unregistered company.*

Labour Laws

15 Marks

- *Definition of Trade Union and the right to form the Trade Union.*
- *Legal Control and Protection of Trade Union: Registration, amalgamation, rights, immunities, liabilities and dissolution. Trade Union Funds.*
- *Collective bargaining.*
- *Strikes, lock-outs, lay off and retrenchment. Transfer and closure.*
- *Unfair labour practices.*
- *Disciplinary proceedings.*
- *Labour welfare: concept, classification and importance.*
- *Obligations of employer for health, safety and welfare.*
- *Working hours of adults and Annual Leave with wages.*
- *Employment of young persons: prohibition of employment of children, regulation of employment of young persons.*
- *Concept of minimum wage, fair wage, living wage and need based minimum wage.*
- *Procedure for fixation and revision of minimum wages.*
- *Components of wages: dearness allowance, principle of fixation.*
- *Definition of wage under Payment of Wages Act, 1936 and responsibility for payment of wages.*
- *Concept of employer, workmen, dependent, disablement.*
- *Workmen's compensation: employer's liability for compensation, amount and distribution of compensation.*
- *Employee's State Insurance: benefits, ESI fund and contribution.*

CRIMINAL LAW

15 Marks

- *Indian Penal Code: General defences (Sections 76-106); Group liability (Sections 34 & 149); Unlawful Assembly, Rioting and Affray; Abetment; Criminal Conspiracy; Criminal Attempt; Offences against body (Sections 299-304, 319-326, 339-343, 349-353 and 359-363); Offences against property (Sections 378, 379, 383, 384, 390-392, 395, 405, 415-417, 425 and 426).*

JURISPRUDENCE

15 Marks

- *Meaning and scope of Jurisprudence; Nature and definition of "Law"; Schools of Law (Analytical positivism, Natural Law, Historical School and Sociological School); Sources of Law (Legislation, precedents, customs and juristic writings); Rights and duties- concept and co-relationship); Concept of person, Ownership and Possession.*

INTERNATIONAL LAW AND HUMAN RIGHTS

25 Marks

- *Origin, Development, Definition, Nature and Theories of International Law; Its relation with Municipal Law.*
- *Sources of International Law, Custom. Treaties. General Principles of Law and writings.*
- *Subjects of International Law: State including Recognition of States; Individuals and peoples; International Organizations.*
- *Jurisdiction of States: Territorial, Personal and Universal.*
- *Extradition and Asylum.*
- *Law of State Responsibility.*

- *Peaceful Settlement of Disputes including settlement by ICJ.*
- *Use of Forces under International Law.*
- *Human Rights: Origin, development and nature of Human Rights; International Bill of Human Rights; Regional Systems of Human Rights Law; Protection of Human Rights Act and International Humanitarian Law.*

ENVIRONMENTAL LAW

10 Marks

- *Environmental Pollution: Meaning and issues.*
- *Constitutional provisions-Art. 14, 19(1)(g), 21, 48A & 51A, right to wholesome environment- evolution and application. PIL and protection of Environment.*
- *Water and Air Pollution Control Acts:*
 - *Standards, CPCB and SPCB, Consent Mechanism, Control Areas and Restraint Orders*
 - *Citizen Suit and Access to Environmental Information*
 - *Corporate and Governmental Liability for Environmental Offences*
- *Environmental Protection Act, 1986 and other environmental legislations*
- *International Environmental Law and Norms:*
 - *Stockholm Declaration, Global Warming and Ozone Conventions*
 - *Sustainable development, Public Trust Doctrine*
 - *Precautionary Principle, Polluter Pays Principle*
- *Local Environmental Laws and Problems in J&K:*
 - *Forest Act, 1930, J&K Wildlife Protection Act, JEK Forest (Conservation) Act (Summary of the provisions with special emphasis on Forest Dwellers and Forests, medicinal plants and related traditional knowledge)*
 - *Protection of Biodiversity in J&K- Local Laws and Central Acts- Forest (Protection) Force Act*
 - *Preservation and protection of lakes and waterways in J&K- Existing related laws and future needs.*

*Secretary,
Services Selection Board,
Jammu.*



Government of Jammu and Kashmir
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Annexure "A"

Max time:-150

Time:-2.30 Hours

Theater Technician

1. **Pre-operative Consideration:**

05 Marks

Psychological support of the surgical patient.

2. **Protection of the patient in surgery:**

25 Marks

- -Admission Procedure
- -Transfer Procedure Position
- -Environmental Controls
- -Electro-Surgery
- -Operative Records
- -Counting Procedure
- -Sterilization
- -Emergencies and Disasters.

3. **Surgical Instruments:**

15 Marks

- -Instruments for general surgery
- Operation of the face and neck
- Operations of the Nose, Throat and : Accessory Nasal Sinuses
- Ophthalmic surgery
- Sinuses, Ear & throat
- -Operations of the Chest, Operations on the Genito-Urinary Tract
- - Gynecological and Obstetric Operations
- -Orthopedic Operations
- - Neuro-surgical Operations
- Radium Insertion
- Traumatic Surgery.

4. **Surgical Procedures:**

05 Marks

i) Neck Surgery:

- Thyroidectomy
- Parathyroidectomy
- Thyroglossal Cystectomy

ii) Preast Procedures :

- Breast Biopsy
- Mastectomy

iii) Abdominal Extraintestinal Surgery: -

- Abdominal laprotomy
- Abdominal Herniography
- Cholecystectomy
- Drainage of Pancreatic Cyst (Pseudocyst)
- Pancreaticoduodenectomy (Whipples procedure)
- Pancreatectomy
- Drainage of Abscess (es) in the region of liver
- Hepatic Resection
- Splenectomy.

iv) Gastrointestinal Surgery

- Esophagoscopy
- Gastroscopy
- Colonoscopy
- Sigmoidoscopy
- Vagotomy and Pyloroplasty
- Gastrostomy
- Gastrectomy
- Small Bowel Resection
- Cutaneous ileostomy
- Appendectomy
- Colostomy
- Closure of colostomy
- Right Hemicolectomy
- Transverse Colectomy
- Anterior Resection of the Sigmoid Colon and Rectum
- Haemorrhoidectomy
- Pilonidal Cystectomy and Sinusectomy
- Theirsch Procedure
- Ripstein Procedure (Prosacral Rectopexy)

5) Gynaecologic and Obstetric Surgery

05 Marks

- Dilatation of the Cervix and Curettage of the Uterus (D&C)
- Conization of the Uterine Cervix
- Therapeutic Abortion by suction Curettage
- Marsupialization of Bartholin's Duct Cyst
- Abdominal Ligabion (Different Procedures)
- Culdoscopy
- Anterior and /or Posterior Colporraphy
- Laparoscopy
- Total Abdominal Hysterectomy
- Spingo-Oophorectomy
- Tuboplasty of the Fallopian Tubes
- Pelvic Exenteration
- Caesarian Section.

. Genitourinary Surgery:

- Hypospadias repair
- Epispadias repair
- Penile Implant
- Marshall-Marchetti-Krantz Procedure
- Hydrocolectomy
- Vasectomy
- Vasovasostomy
- Cutaneous Vasostomy
- Spermatolectomy
- Orchectomy
- Gystoscopy
- Cystoscopy
- Transurethral Resection of the Prostate (TURP) and /or Lesions of the Bladder or Bladder Neck (TURB)
- Open Prostatectomy
- Nephrectomy
- Upper Tract Urolithotomy(Ureterolithotomy, Pheloothotomy, Nephrolithotomy) cutaneous vresterstomy
- Llegal conduit
- Extracproeal shock wave Lithotrpsy (ESWL)
- Ultrasonic Lithotripsy
- Electrohydraulic Lithotripsy

6) Thoracic Procedures:

05 Marks

- Bronchoscopy
- Mediastioscopy
- Segmental Resection of the Lung
- Wedge Resection of the Lung
- Pulmonary Lobectomy
- Pneumonectomy
- Decortication of the Lung
- Insertion of Transvenous Endocardial Pacemaker

- Correction of Pectus
- Excavatum
- Thymectomy

Cardiovascular Surgery: -

- Carotid Endarterectomy
- Abdominal Aortic Procedures (Abdominal Aortic Aneurysmectomy, Abdominal Aortic Endarterectomy) with Aortic Graft
- Femoropopliteal Bypass
- Greater Saphenous vein Ligation and Stripping
- Portosystemic Shunt
- Arteriovenous Shunt
- Arteriovenous Fistula
- Cardiac procedures
- Bypass Surgery (Different Procedures)

Orthopaedic Surgery:

- Open reduction of a carpal Bone Fracture
- Excision of a Ganglion
- Carpal tunnel Release
- Open reduction of the Humerus
- Open reduction of the Radius and /or Ulna
- Open reduction of an Olecranon process Fracture
- Repair of recurrent Anterior Dislocation of the Shoulder
- Open reduction of Fracture of the Humeral Head (including Humeral Head Prosthesis)
- Internal Fixation of the Hip
- Femoral head Prosthetic Replacement
- Total Hip replacement
- Open reduction of the femoral Shaft
- Triple Arthrodesis of the Ankle
- Total Ankle joint Replacement
- Open reduction of ankle
- Arthrotomy of the Knee
- Excision of Popliteal (Baker's Cyst)
- Total knee replacement
- Open reduction of the Tibial shaft
- Bunionectomy
- Correction of hammer toe Deformity with interphalangeal Fusion
- Metatarsal Head Resection
- Procedure for correction of scoliosis
- Amputation of lower Extremity

7) Neurological Surgery :

05 Marks

- Craniotomy
- Cranioplasty
- Transphenoidal Hypophysectomy
- Ventricular Shunts
- Laminectomy
- Excision of a Cervical Intervertebral Disc with fusion, Anterior Approach.

Plastic Surgery :

- Cleft Lip repair
- Cleft Palate repair
- Reduction of Nasal Fracture
- Reduction of Mandibular Fracture
- Reduction of a Zygomatic Fracture
- Open reduction of an Orbital Floor Fracture
- Rhinoplasty
- Mentoplasty Augmentation
- Blepharoplasty
- Rhytidectomy
- Dermabrasion
- Otoplasty
- Repair of Syndactyly
- Digital Flexor Tendon repair
- Peripheral Nerve repair
- Palmar Fasciectomy
- Reduction Mammoplasty
- Abdominoplasty /Abdominal Liposuction
- Liposuction

8) Otorhinolaryngologic (ENT) Surgery:

05 Marks

- Myringotomy
- Mastoidectomy
- Tympanoplasty
- Stapedectomy
- Submucous Resection of the Nasal Septum(SMR) / Septoplasty
- Intranasal Antrostomy / Intranasal Fenestration of the Nasoant

Wall.

• Caldwell-Luo procedure(Radial Drainage of the antrum of the Maxillary Sinuses)

- Nasal Polypectomy
- Drainage of the Frontal Sinus
- Tonsillectomy and Adenoidectomy (T and A)
- Laryngoscopy
- Traheostomy
- Excision of the Submaxillary (Submandibular Gland)
- Parotidectomy
- Laryngectomy
- Radial Neck Dissection
- Excision of lesions of the oral cavity
- (Partial Glossectomy with Marginal Resection of the Mandible)

Ophthalmic Surgery :

- General Information

- Excision of a Chalazion
- Canthotomy
- Correction of Ectropion
- Blepharoptosis repair
- Lacrimal Duct Probing
- Dacryocystostomy
- Correction of Strabismus
- Enucleation of the Globe
- Orbital Exenteration
- Corneal Transplant /Keratoplasty
- Cataract Extraction
- Iridectomy
- Trabeculectomy
- Excision of a pterygium
- Repair of Retinal Detachment /Scleral Bucking
- Vitrectomy
- Refractive keratoplasty

9) Pediatric Procedures: -

02 Marks

- Pediatric General Information
- Pediatric Tracheostomy
- Branchial sinusectomy
- Repair of Congenital Diaphragmatic Hernia
- Omphalocele Repair
- Pediatric Umbilical Herniography
- Repair of congenital Atresia of the Esophagus
- Insertion of a central Venous Catheter(Pediatric)
- Pyloromyotomy for congenital Hypertrophic Pyloric Stenosis
- Pediatric Gastrostomy
- Reduction of pediatric intussusception
- Pediatric Colostomy
- Pediatric Colorectal Resection for Aganglionic

Megacolon/Hirschsprung's Disease

- Repair of Imperforate Anus

10. Anaesthesia :

13 Marks

- General Information
- General Anaesthesia
- Conduction

1. General anaesthesia: Conduction anaesthesia:

- Spinal
- Epidural
- Caudal
- Regional

- Local
 - Topical
- 11 Methods for preparation of the Patients for Anaesthesia:
05 Marks

- Methods and Procedures (during after operation)

- 12 Surgical Procedures and Monitoring: Safety for operation Room Personnel : 25 Marks

- In Service education
- Body mechanic
- Fatigue Factors
- Radiation Safety
- Infection control
- Chemical Hazards

- 13 Preparation of Instruments Tray: - 20 Marks

- Major procedures tray
- Basic /Minor procedures tray
- Limited procedures tray
- Thyroid tray
- Long instruments tray
- Biliary tract procedures tray
- Choledochoscopy tray
- Basic rigid sigmoidoscopy tray
- Gastrointestinal procedures tray
- Rectal procedures tray

- 14 Gynecologic and obstetric Trays: 05 Marks

- Dilatation of the Cervix and Curettage of the Uterus (D&C) Tray
- Cervical Cone Tray
- Laparoscopy
- Abdominal Hysterectomy
- Caesarian Section tray
- Vaginal Hysterectomy tray

Genitourinary Trays:

- Vasectomy tray
- Open Prostatectomy
- Kidney tray

- 15 Thoracic Trays: 05 Marks

- Mediastinoscopy tray
- Thoractomy Tray

- Pacemaker tray
- Cardiovascular Trays: -
- Vascular Procedures tray
- Vascular Shunt Tray
- Cardiac procedures tray
- Orthopaedic Trays:
- Basic orthopaedic procedures tray
- Minor orthopaedic procedures tray
- Bone holding instruments tray
- Hip retractor tray
- Knee Arthroscopy tray
- Knee or Ankle Arthroscopy tray
- 16 Neurologic Procedures Tray: 05 Marks
- Craniotomy tray
- Laminectomy Tray
- Kerrison Rongeurs and Pituitary Cores tray
- Otorhinolaryngologic(ENT) Tray:
- Basic Ear procedures tray
- Nasal procedures tray
- Myringotomy tray
- Tonsillectomy and Adenoidectomy tray
- Tracheostomy tray
- Antral Puncture tray
- Ophthalmic Trays:
- Basic Eye procedures tray
- Eyelid and Conjunctival procedures tray
- Basic Eye Muscle procedures tray
- Cataract Extraction and Lens procedures tray
- Glaucoma Procedures tray
- Basic Eye procedures Microscope tray
- Retinal procedures tray
- Pediatric Tray :
- Pediatric major procedures tray
- Pediatric minor Procedures tray
- Pediatric Gastrointestinal Procedures trays.

