

THE J&K STATE PARA-MEDICAL COUNCIL GOVERNMENT MEDICAL COLLEGE JAMMU.

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SYLLABUS

Operation Theatre and Technology

> Anatomy and Physiology

(Marks 20)

- ✓ Elementary Physics and Chemistry
- ✓ Characteristic of living matter
- ✓ The structure of living matter
- ✓ The Tissues
- ✓ Systems and various parts of human body
- ✓ Development and types of Bones
- ✓ Bones of head & trunk
- ✓ Bones of the limb
- ✓ Joints or Articulations
- ✓ Structure and action of Muscles.
- ✓ The Chief Muscles of the Body
- ✓ The Blood
- ✓ The heart and Blood Vessels
- ✓ The Circulation System
- ✓ The Lymphatic System
- ✓ The Respiratory System
- ✓ The Digestive System
- ✓ The Liver, Billiary System and Pancreas
- ✓ Nutrition and Metabolism
- ✓ Endocrine Glands and Exocrine Glands
- ✓ The Urinary System
- ✓ The Nervous System
- ✓ The Ear
- ✓ The Eye
- ✓ The Skin
- ✓ The Reproductive System etc.

Surgical Instruments and Surgical Procedures (Marks 50)

✓ Pre – Operative Consideration

• Psychological support of the surgical patient.

✓ Protection of the Patient in Surgery

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

✓ Surgical Instruments

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

✓ Surgical Procedures

✓ Neck Surgery

- Thyroidectomy
- Parathyroidectomy
- Thyroglossal Cystectomy

✓ Preast Procedures

- Beast Biopsy
- Mastectomy

✓ Abdominal Extraintestinal Surgery

- Abdominal laprotomy
- Abdominal Hernlography
- Cholecystectomy
- Drainage of Pancreatic Cyst (Pseudocyst)
- Pancreaticoduodectomy (Whipples procedure)
- Pancreatectomy
- Dranage of Abscess (es) in the region of liver
- Hepatic Resection
- Spleenectomy.

► Gastriubtestinal Surgery

- Esopghagoscopy
- Gastroscopy
- Colonoscopy
- Sigmoidoscopy
- Vagotomy and Pyloroplasty
- Gastrostomy
- Gastrectomy
- Small Bowel Resection
- Cutaneous illeostomy
- Appendectomy
- Colostomy
- Closure of colostomy
- Right Hemincolectomy
- Transverse Coplectomy
- Anterlor Resection of the Sigmold Colon and Rectum
- Haemorrhoidectomy
- Pilonidal Cystectomy and Sinusectomy
- Theirsch Procedure
- Ripstein Procedure (Prosacral Rectopexy)

✓ Gynaecologic and Obstetric Surgery

- Dilatation of the Cervix and Curettage of the Uterus (D&C)
- Conization of the Uterine Cervix
- Therapeutic Abortion by suction Currettage
- Marsupialization of Bartholin's Duct Cyst
- Abdominal Ligabion (Different Procedures)
- Culdoscopy
- Anterior and /or Posterior Colporraphy
- Laparoscopy
- Total Abdominal Hysterectomy
- Slpingo-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
- Spermatocolectomy
- Orchectomy
- Gystoscopy
- Cystosdopy
- Transurethral Resetion of the Prostate
- (TURP) and /or Lesions of the Bladder or Bladder Nech (TURB)
- Open Prostatectomy
- Nephrectomy
- Upper Tract Urolithotomy(Ureterolithotomy, Pheloothotomy, Nephrolithotomy) cutaneous vresterstomy
- Llegal conduit
- Extracproeal shock wave Lithotrpsy (ESWL)
- Ultrasonic Lithortripsy
- Electrohydraulic Lithotripsy

✓ Thoracic Procedures

- Bronchosopy
- Mediastioscopy
- Segmental Resection of the Lung
- Wedge Resection of the Lung
- Pulmonarty Lobectomy
- Pneumonectomy
- Decortication of the Lung
- Insertion of Transvenous Endocardial Pacemaker
- Correction of Pectus
- Excavatum
- Thymectomy

✓ Cardiovascular Surgery

- Carotid Endartererctomy
- Abdominal Aortic Procedures(Abdominal Aortic Abneurysmectomy, Abdominal Aortic Endaertectomy) with Astroilliac Graft
- Femoropopliteal Bypass
- Greater Saphenous vein Ligation and Stripping
- Portasystemic Shunt
- Artheriovenous Shunt
- Arteriovenous Fistula
- Cardiac procedures
- BY pass Surgery(Different Procedures)

✓ Orthopaedic Surgery

- Open reduction of a carpal Bone Fracture
- Excision of a Gaglion
- Carpal tunnel Release
- Open rduction of the Humerus
- Open reduction of the Radius and /or Ulna
- Open reduction of an Olecranon process Fracture
- Repair of recurrent Anterior Dislocationm of the Shoulder
- Open reduction of Fracture of the Humeral Head (including Humeral Head Prosthesis)
- Internal Fixation of the Hip
- Femoral head Prosthethic Replacement
- Total Hip replacement
- Openreduction 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 Defrmity with interphalabngeal Fusion
- Metarsal Head Resection
- Procedure for correction of scoliosis
- Amputation of lower Extremity

✓ Neurological Surgery

- Craniotomy
- Cranioplasty
- Transphenoidal Hypophysectomy
- Ventricular Shunts
- Laminectomy
- Excision of a Cervical Intervetebral Disc with fusion, AntoriorApproach.

✓ 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
- Blepgharoplasty
- Rhytidectomy
- Dermabrasion
- Otoplasty
- Repair of Syndactyly
- Digital Flexor Tendon repair
- Peripheral Nerve repair
- Palmar Fascoectomy
- Reduction Mammoplasty
- Abdominoplasty / Abdominal Liposuction
- Liposuction

✓ Otorhinolarynogologic (ENT) Surgery

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

- Intranasal Antrosstomy / Intranasal Fenestration of the Nasoantal 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 Margyinal Rsection of the Mandible)

✓ Opthalmic Surgery

- General Information
- Excision of a Chalazion
- Canthotomy
- Corection of Ectroplon
- Blepharoptosis repair
- Lacrimal Duct Probing
- Dacryocystothinostomy
- Correction of Strabismus
- Esyiscertation of the Globe
- Orbital Exenteration
- Corneal Transplant /Ekeratoplasty
- Cataract Extraction
- Iridectomy
- Trabeculectomy
- Excision of a pterygium
- Repair of Retinal Detachment /Scieral Bucking
- Vitrectomty
- Refractive keratoplasty

✓ Pediatric Procedures

- Pediatric General Information
- Pediatric Tracheostomy
- Branchial sinusectomy
- Reparir of Congenital Diaphragmatic Hernia
- Omphalocele Repair
- Pediatric Umblical Herniography

- Reparia of congenital Atrersia of the Esophagus
- Insertion of a central Venous Catheter(Padiatric)
- Pyloromyotomy for congenital Hypertrophic Pyloric Stenosis
- Pediatric Gastrostomy
- Reduction of pediatric intususception
- Pediatric Colostomy
- Pediatric Colorctal Resection for Aganglionic Megacalon/Hirschsprung's Disease
- Repair of Imperforate Anus

ANAESTHESIA

Anaesthesia: (Marks 10)

- General Information
- General Anaesthesia
- Conduction
- ✓ General Anaesthesia:
- **✓** Conduction Anaesthesia :
 - Spinal
 - Epidural
 - Caudal
 - Regional
 - Local
 - Topical

✓ Methods for Preparation of the Patients for Anaesthesia

• Methods and Procedures (during after operation)

> **Surgical Procedures and Monitoring:**

(Marks 40)

✓ Safety for operation room personnel

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

✓ Preparation of Instruments Tray

- 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

✓ Gynaecologic and Obstetric Trays

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

✓ Genitourinary Trays:

- Vasectomy tray
- Open Prostatectomy
- Kidney tray

✓ Thoracic Trays :

- Mediastinoscopy tray
- Thoractomy Tray
- Pacemaker tray
- ✓ Cardiovascular Trays :-
- Vascular Procedures tray
- Vascular Shunt Tray
- Cardiac procedures tray
- ✓ Orthopaedic Trays:-
- Basic orthopaedi procedures tray
- Minor orthopaedic procedures tray
- Bone holding instruments tray
- Hip retractor tray
- Knee Arthtotomy tray
- Knee or Ankle Anthroscopy tray

✓ Neurologic Procedures Tray :

- Craniotomy tray
- Laminectomy Tray
- Kerrison Rongeurs and Pituitary Coreps tray

✓ Otorhinolaryngologic (ENT) Trays:-

- Basic Ear procedures tray
- Nasal procedures tray
- Myringotomy tray
- Tonsiliectomy and Adenoidectomy tray
- Tracheostomy tray
- Antral Puncture tray

✓ Opthalmic Trays :-

- Basic Eye procedures tray
- Eyelid and Conjunctional procedures tray
- Basic Eye Muscle procedures tray
- Cataract Extractionand Lense 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.