

# **Annexure "M"**

## **Syllabus for the post of Jr. Theatre Technician**

**Marks :-120  
Time :- 2.00 Hours**

➤ **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
  - Operations of the Chest, Operations on the Genito-Urinary Tract
  - Gynecological and Obstetric Operations
  - Orthopedic Operations
  - 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
- Gastrosopy
- Colonoscopy
- Sigmoidoscopy
- Vagotomy and Pyloroplasty
- Gastrostomy
- Gastrectomy
- Small Bowel Resection
- Cutaneous illeostomy
- Appendectomy
- Colostomy

- Closure of colostomy
- Right Hemicolecction
- Transverse Colectomy
- Anterior Resection of the Sigmoid 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 Curettage
- 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
- Spermatocoele
- Orchiectomy
- 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 vesicostomy
- Lileal conduit
- Extracorporeal shock wave Lithotripsy (ESWL)
- Ultrasonic Lithotripsy
- Electrohydraulic Lithotripsy

**✓ Thoracic Procedures**

- Bronchoscopy

- Mediastinoscopy
- 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 Abneurysmectomy, Abdominal Aortic Endarterectomy) with Astroiliac 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 reduction 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 Prosthetic 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 Defrmyt 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 Intervetebreal 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 Fascectomy
- Reduction Mammoplasty
- Abdominoplasty /Abdominal Liposuction
- Liposuction

✓ **Otorhinolaryngologic (ENT) Surgery**

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

- Dacryocystothenostomy
- Correction of Strabismus
- Eysicstertation of the Globe
- Orbital Exenteration
- Corneal Transplant /Ekeratoplasty
- Cataract Extraction
- Iridectomy
- Trabeculectomy
- Excision of a pterygium
- Repair of Retinal Detachment /Scieral Bucking
- Vitrectomy
- 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(Pediatric)
- Pyloromyotomy for congenital Hypertrophic Pyloric Stenosis
- Pediatric Gastrostomy
- Reduction of pediatric intususception
- Pediatric Colostomy
- Pediatric Colortal 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 Hazards

**✓ 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 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

**✓ 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 Arthotomy 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
- 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 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.