



GOVERNMENT OF JAMMU & KASHMIR
SHER-I-KASHMIR INSTITUTE OF MEDICAL SCIENCES
SOURA SRINAGAR

**Syllabus for Assistant Professor Posts of
the Department of Paediatric Surgery,
SKIMS, SOURA.**

GOVERNMENT OF JAMMU & KASHMIR
SHER-I-KASHMIR INSTITUTE OF MEDICAL SCIENCES SOURA SRINAGAR
DEPARTMENT OF PAEDIATRIC SURGERY

**SYLLABUS FOR WRITTEN TEST
POST OF ASSISTANT PROFESSOR
PAEDIATRIC SURGERY
SKIMS, SOURA, SRINAGAR**

The following syllabus is prescribed for the written examination for the post of Assistant Professor in Paediatric Surgery.

I. BASIC MEDICAL SCIENCES APPLIED TO PAEDIATRIC SURGERY

- Developmental anatomy and embryology
- Applied and regional anatomy
- Physiology related to children and neonates
- Neonatal physiology, metabolism and acid-base balance
- Respiratory physiology and ventilatory support
- General pathology with emphasis on paediatric surgical conditions
- Pharmacology and pharmacokinetics in neonates and children
- Biochemical and metabolic considerations in paediatric surgery
- Fetal anatomy, physiology and pathology
- Genetics relevant to paediatric surgery

II. GROWTH, DEVELOPMENT AND FETAL MEDICINE

- Growth and developmental assessment
- Fetal medicine
- Diagnosis and management of surgically correctable fetal lesions

III. NEONATAL SURGERY

- Congenital neonatal surgical disorders
- Pre-operative and post-operative neonatal management
- Ventilatory and intensive care support
- Neonatal surgical emergencies

IV. GENERAL PAEDIATRIC SURGERY



- Wound healing
- Infections and sepsis
- Trauma and burns in children
- Abdominal wall defects and hernias
- Umbilical disorders
- Testicular and adrenal disorders
- Vascular malformations
- Hemangiomas and lymphangiomas
- Soft tissue lesions
- Twinning abnormalities

V. GASTROINTESTINAL, HEPATOBILIARY AND PANCREATIC SURGERY

- Congenital anomalies of esophagus, stomach and intestines
- Gastroesophageal reflux disease
- Esophageal strictures and burns
- Meconium ileus
- Intestinal obstruction
- Disorders of intestinal rotation and fixation
- Necrotising enterocolitis
- Short bowel syndrome
- Inflammatory bowel disease
- Peritonitis and intra-abdominal infections
- Portal hypertension
- GI bleeding and ascites
- Anorectal malformations
- Hepatobiliary disorders
- Pancreatic disorders

VI. GENITOURINARY SURGERY

- Congenital anomalies of kidney, ureter, bladder and urethra
- Obstructive uropathy
- Vesicoureteric reflux and megaureter
- Urinary tract infections
- Urinary lithiasis
- Functional bladder disorders
- Hypospadias and epispadias
- Ambiguous genitalia
- Female genital tract anomalies

- Urodynamic studies

VII. THORACIC SURGERY

- Chest wall deformities
- Congenital thoracic malformations
- Lung and pleural infections
- Foreign bodies in airway and esophagus
- Diaphragmatic disorders
- Mediastinal disorders
- Pulmonary and mediastinal tumours

VIII. PAEDIATRIC ONCOSURGERY

- Tumours in childhood
- Principles of oncologic surgery
- Biopsies and tumour resections
- Chemotherapy and antineoplastic drugs
- Radiation therapy in childhood malignancies

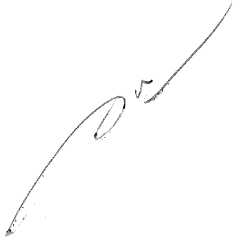
IX. PLASTIC AND RECONSTRUCTIVE SURGERY

- Burn management
- Cleft lip and palate
- Choanal atresia
- Syndactyly
- Skin grafts and flap procedures

X. PAEDIATRIC NEUROSURGERY

- Hydrocephalus
- Craniospinal dysraphism
- Craniofacial deformities

XI. IMAGING, ENDOSCOPY AND MINIMALLY INVASIVE SURGERY

- Ultrasonography
 - Conventional and specialized radiology
 - MRI and nuclear imaging
 - Radiation biology
 - Endoscopy
 - Laparoscopy
 - Surgical staplers
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XII. PAEDIATRIC TRAUMA AND CRITICAL CARE

- Paediatric trauma management
- Burns and resuscitation
- Organization of intensive care services
- Monitoring and critical care

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