

# MARCH - 1990

256

M.Ch. DEGREE EXAMINATION, MARCH 1990.

(Higher Specialities)

Branch V — Paediatric Surgery

Part II

BASIC SCIENCES AS APPLIED TO PAEDIATRIC SURGERY

Time Three hours

Answer ALL the questions.

1. Describe the anatomical and functional development of kidney.
2. Describe the development of testes and their descent. Discuss the pathogenesis of the related congenital anomalies.
3. Write short notes on :
  - (a) Empyema thoracis.
  - (b) Hereditary spherocytosis.
  - (c) Bleeding per rectum in neonates infants and children.

**SEPTEMBER - 1991**

**360**

**M.Ch. DEGREE EXAMINATION, SEPTEMBER 1991.**

**Branch V — Paediatric Surgery**

**BASIC SCIENCES AS APPLIED TO PAEDIATRIC  
SURGERY**

**Time : Three hours.**

**Maximum : 100 marks.**

**Answer ALL questions.**

1. Discuss Extrophy Bladder. (25 marks)
  2. Discuss Recurrent Urinary Tract Infection in children. (25 marks)
  3. Write short notes on :
    - (a) Spina bifida occulta.
    - (b) Causes of congenital malformation.
    - (c) Ammoniacal dermatitis.
    - (d) Viable versus non-viable intussusception.
    - (e) Pathology of lungs in congenital diaphragmatic hernia. (5×10=50 marks)
-

**MARCH - 1992**

**M.Ch. DEGREE EXAMINATION, MARCH, 1992**

**Branch V - PAEDIATRIC SURGERY**

**Part II**

**BASIC SCIENCES AS APPLIED TO PAEDIATRIC  
SURGERY**

**Time: Three hours**

**Maximum Marks: 100**

**Describe the Mechanism of coagulation of blood and discuss the importance of coagulation disorders in paediatric surgical practice. (25 Marks)**

- 2. Describe the Anatomy of ventricles of brain and discuss the physiology of circulation of cerebrospinal fluid. (25 Marks)**

- 3. Write short notes on: (5 X 10=50 Marks)**

- a) Anorectal manometry**
- b) Development of pancreas**
- c) Hypochloremic alkalosis**
- d) Retinoblastoma**
- e) Staphylococcal infections in new born**

## SEPTEMBER - 1992

[ 360 ]

M.Ch. DEGREE EXAMINATION, SEPTEMBER 1992

(Higher Specialities)

Part II

BASIC SCIENCES AS APPLIED TO PAEDIATRIC SURGERY

Time : Three hours.

Maximum : 100 marks.

1. What is shock? Classify shock. Discuss the Etiopathogenesis and Pathology and management of shock. (25 marks)
  
  2. Describe the surgical anatomy of rotation of gut. Discuss briefly the developmental anomalies thereon. What are the developmental anomalies of the abdominal wall of the new born? Discuss. (25 marks)
  
  3. Write short notes on : (5 × 10 = 50 marks)
    - (a) Antibiotics in the paediatric surgical practice.
    - (b) Tracheo Oesophageal Fistula.
    - (c) Wilms Tumour.
    - (d) Birth injuries.
    - (e) Aids in Paediatric Surgery.
-

**NOVEMBER - 1993**

**[ PR 335 ]**

**M.Ch. DEGREE EXAMINATION**

**(Higher Specialities)**

**Branch V — Paediatric Surgery**

**(Old/New Regulations)**

**Part II**

**BASIC SCIENCES AS APPLIED TO PAEDIATRIC  
SURGERY**

**Time : Three hours.**

**Maximum : 100 marks.**

**Answer ALL questions.**

1. Describe the surgical anatomy of the diaphragm. Discuss briefly its developmental anomalies. Discuss developmental anomalies of the lower oesophagus in a new-born. (25)
  2. What is neonatal jaundice? Discuss the etiopathogenesis and pathology and management of surgical jaundice in the new-born. (25)
  3. Write short notes on : (5×10=50)
    - (a) Hepatoblastoma.
    - (b) Heat regulation in the new-born.
    - (c) Massive blood transfusion.
    - (d) Blunt abdominal trauma.
    - (e) Hydrocephalus.
-

**APRIL - 1994**

**M.Ch. DEGREE EXAMINATION**

**(Higher Specialities)**

**Branch V - Paediatric Surgery**

**(Old/New Regulations)**

**Part II**

**BASIC SCIENCES AS APPLIED TO PAEDIATRIC  
SURGERY**

**Three hours.**

**Max.marks:1**

**Answer ALL questions.**

**Discuss the features of Gram negative septicæmi  
in a New Born. Outline its management. (25)**

**Describe the development of Diaphragm. Discuss  
the pathophysiology of respiratory distress in  
Diaphragmatic hernia. (25)**

**Write short notes on: (5 x 10 = 50)**

**Annular pancreas**

**Oncogenes**

**Perineal Groove**

**Haemangioma Liver**

**Lasers in Paediatric Surgery**

**APRIL - 1995**

**[SB 135]**

**M.Ch. DEGREE EXAMINATION.**

**(Higher Specialities)**

**Branch V – Paediatric Surgery**

**(Old/New Regulations)**

**Part II**

**BASIC SCIENCES AS APPLIED TO PAEDIATRIC  
SURGERY**

**Time : Three hours**

**Maximum 100 marks**

**Answer ALL questions.**

1. Describe in brief the fluid and electrolyte disturbances that occur in a patient who weighs 3.5 kg and has been suffering from non-bilious projectile vomiting for a week. How would you correct the disturbances and monitor treatment? (25)
2. Discuss in brief temperature regulation in a 2.8 kg 2 day old newborn. What is cold injury? (25)

**Write briefly on :**

**(5 × 10 = 50)**

- (a) Development of inferior vena cava.
- (b) Branchial clefts.
- (c) Embryology of omphalocele.
- (d) Split notochord syndrome.
- (e) Agenesis of corpus callosum.

APRIL - 1996

AK 57

M.Ch. DEGREE EXAMINATION  
(Higher Specialities  
Branch V - Paediatric Surgery  
(Revised Regulations)

Paper I - BASIC SCIENCES AS APPLIED TO  
PAEDIATRIC SURGERY

Time: Three hours

Max. marks: 100

Answer All Questions

1. Describe the development of the midgut. How would you investigate and manage a neonate with volvulus neonatorum? (25)
2. Describe the surgical anatomy of the liver. How would you investigate and manage a child with Hepatoblastoma? (25)
3. Write short notes on: (5x10=50)
  - (a) Primary Peritonitis
  - (b) Anorectal reflex
  - (c) EMG syndrome
  - (d) Congenital short urethra
  - (e) Syndactyly.

APRIL - 1997

MP 46

M.Ch. DEGREE EXAMINATION

(Higher Specialities)

Branch V - Paediatric Surgery

(Revised Regulations)

Paper I - BASIC SCIENCES AS APPLIED TO  
PAEDIATRIC SURGERY

Time: Three hours                      Max. marks:100

Answer All Questions

1. Describe the development of the diaphragm. How would you manage a 6 hour old new born with left posterolateral diaphragmatic hernia? (25)
2. Describe the surgical anatomy and classification of the posterior urethral valves. How would you investigate and manage a 1 year old child with posterior urethral valves? (25)
3. Write briefly on: (5x10=50)
  - (a) Midgut volvulus
  - (b) Biliary atresia

Ectopic anus

Mongolism

Congenital Lung cyst.

APRIL - 1998

SV 51

M.Ch. DEGREE EXAMINATION

(Higher Specialities)

Branch V - Paediatric Surgery

(Revised Regulations)

Paper I - BASIC SCIENCES AS APPLIED TO  
PAEDIATRIC SURGERY

Time: Three hours

Max.marks:100

Answer All Questions

1. Describe the physiology of normal micturition. Discuss functional bladder disorders. (25)
2. Discuss the anatomical physiology of Hirschsprung's disease and evaluate the different diagnostic modalities. (25)
3. Write briefly on: (5x10=50)
  - (a) Notochord
  - (b) Brachial fistula
  - (c) Vestibular anus
  - (d) Congenital adenomatoid malformation of lung
  - (e) Venous Haemangioma.

**OCTOBER - 1998**

**[SM 048]**

**M.Ch. DEGREE EXAMINATION.**

**(Higher Specialities)**

**Branch V — Paediatric Surgery**

**(Revised Regulations)**

**Paper I — BASIC SCIENCES AS APPLIED TO PAEDIATRIC  
SURGERY**

**Time : Three hours**

**Maximum : 100 marks**

**Answer ALL questions.**

1. Describe sexual differentiation of external genitalia and urogenital sinus. Explain complete genesis of testicular feminisation syndrome. (25)
2. Describe the role of antenatal ultra sonography in the diagnosis and the management of pediatric surgical anomalies. (25)
3. Write short notes on : (5 × 10 = 50)
  - (a) Use of Doppler in Pediatric surgery
  - (b) Congenital bladder diverticulum
  - (c) Pathophysiology of mucoviscidosis
  - (d) Draw anatomy of tracheobronchial tree
  - (e) Biochemistry and physiology of CSF production.

OCTOBER - 1999

[KA 048]

Sub. Code : 1701

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

Branch V — Paediatric Surgery

(Revised Regulations)

Paper I — BASIC SCIENCES AS APPLIED TO  
PAEDIATRIC SURGERY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Describe the normal development of urethra. Outline the principles in the surgery of Epispadias. (25)
2. Discuss the pathophysiology of flame burns and outline the fluid therapy in a 20 kg child with 30 per cent burns. (25)
3. Write briefly on : (5 × 10 = 50)
  - (a) Development anomalies of lip and palate
  - (b) Pathology of gastro-oesophageal reflux
  - (c) Spina bifida occulta
  - (d) Endodermal sinus tumour
  - (e) Familial polyposis.

APRIL - 2000

[KB 048]

Sub. Code : 1701

M.Ch. DEGREE EXAMINATION.

Paediatric Surgery

Paper I — BASIC SCIENCES AS APPLIED TO  
PAEDIATRIC SURGERY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss congenital diaphragmatic hernia under the following headings.
  - Embryological basis (7)
  - Pathophysiology (10)
  - Biochemical changes (6)
  - Prenatal diagnosis (3)
  - Post surgical pharmacological management. (4)
2. Discuss 'Inter Sex' under the following headings :
  - Development of the genitalia (8)
  - Factors helping/affecting the normal differentiation of sex (10)
  - Biochemical and Imaging investigations in a child with 'inter sex' (12)
3. Write briefly on :
  - (a) Thermoregulation in the new born. (10)
  - (b) Tumour markers in liver neoplasms. (10)
  - (c) Innervation of the urinary bladder. (10)
  - (d) Embryology of annular pancreas. (10)