

APRIL - 2001

[KD 049]

Sub. Code : 1702

M.Ch. DEGREE EXAMINATION

(Higher Specialities)

Branch V — Paediatric Surgery

(Revised Regulations)

Paper II — NEONATAL SURGERY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss Sacro-coccygeal Teratoma under the following headings. (30)
  - Classification (6)
  - Histopathology (5)
  - Clinical presentation (6)
  - Surgical management (8)
  - Prognosis (5)
2. Discuss the (30)
  - Development of anorectum (8)
  - Classification of Anorectal Anamolies (7)
  - Diagnosis of Anorectal Anamolies (7)
  - Surgical management of Anorectal Anamolies (8)

3. Write briefly on :

- (a) Choanal atresia (10)
- (b) Hypoglycemia in a new born (10)
- (c) Tracheomalacia (10)
- (d) Gastroschiasis (10)

NOVEMBER - 2001

[KE 049]

Sub. Code : 1702

5

Write briefly on :

- (a) Congenital Diaphragmatic Hernia (10)
- (b) Duplex system of Ureter. (10)
- (c) Solitary Thyroid Swelling. (10)
- (d) Laproscopy in children. (10)

M.Ch. DEGREE EXAMINATION

(Higher Specialities)

(Revised Regulations)

Branch V — Paediatric Surgery

Paper II — NEONATAL SURGERY

Time : Three hours

Maximum : 100 marks

Answer ALL questions

1. Discuss Choanal Atresia in new born under following headings : (30)
  - (a) Etiology and Development of Face. (6)
  - (b) Clinical presentation. (6)
  - (c) Management. (10)
  - (d) Immediate and Late Complications. (8)
2. Discuss spinal dysraphism under following (30)
  - (a) Embryology. (8)
  - (b) Classification and Clinical presentation (6)
  - (c) Management. (10)
  - (d) Complications. (6)

MARCH - 2002

[KG 049]

Sub. Code : 1702

3

Write short notes on :

- (a) Congenital hypertrophic pyloric stenosis (10)
  - (b) Duplication cysts of GUT (10)
  - (c) Sacrococcygeal teratoma (10)
  - (d) Gastroschisis. (10)
- 

**M.Ch. DEGREE EXAMINATION**

(Higher Specialities)

(Revised Regulations)

Branch V — Paediatric Surgery

Paper II — NEONATAL SURGERY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss Biliary atresia under the following headings :

- (a) Clinical presentation (5)
- (b) Diagnostic modalities (10)
- (c) Management of biliary atresia (10)
- (d) Long term follow up. (5)

2. Discuss the tracheo oesophageal fistulae under the following headings :

- (a) Embryology and development (5)
- (b) Clinical presentation and diagnosis (5)
- (c) Surgical options available (10)
- (d) Post operative complication and management. (10)

SEPTEMBER - 2002

[KH 049]

Sub. Code : 1702

3

Write short notes on

- (a) GER in neonates. (10)
- (b) Gastric teratoma. (10)
- (c) Meconium peritonitis. (10)
- (d) Exomphalos. (10)

M.Ch. DEGREE EXAMINATION

(Higher Specialities)

Branch V — Paediatric Surgery

(Revised Regulations)

Paper II — NEONATAL SURGERY

Time : Three hours

Maximum : 100 marks

Answer ALL questions:

1. Discuss congenital hydronephrosis under the following headings :

- (a) Embryology of kidney and ureters. (5)
- (b) Antenatal diagnosis and its relevance (5)
- (c) Clinical presentation and diagnosis (10)
- (d) Management of PUJ obstruction (10)

2. Discuss the congenital choledochal cyst in children under the following headings :

- (a) Embryology and development. (10)
- (b) Clinical presentation and classification (10)
- (c) Management and surgical options (10)

2

[KH 049]

APRIL - 2004

[KK 049]

Sub. Code : 1702

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch V — Paediatric Surgery

Paper II — NEONATAL SURGERY

Time : Three hours

Maximum : 100 marks

Theory : Two hours and  
forty minutes

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

A. Essay :

(2 × 15 = 30)

(1) Management of leaks following esophageal anastomosis after repair for esophageal atresia and tracheo esophageal fistula.

(2) Management of a two month old female baby presenting with urinary obstruction.

B. Short notes :

(10 × 5 = 50)

- (1) Neonatal hydrocephallus
- (2) Congenital esophageal stenosis
- (3) Congenital adenomatoid malformations
- (4) Pancreatic divisum
- (5) Umbilical fecal discharge
- (6) Biliary hypoplasia
- (7) Ruptured omphalocele
- (8) Vesicointestinal fissure
- (9) Barium study showing microcolon
- (10) Leaking meningomyelocele.

**FEBRUARY - 2005**

**[K1049]**

**Sub. Code : 1702**

**M.Ch. DEGREE EXAMINATION.**

**(Higher Specialities)**

**(Revised Regulations)**

**Branch V — Paediatric Surgery**

**Paper II — NEONATAL SURGERY**

**Time : Three hours                      Maximum : 100 marks**

**Theory : Two hours and                      Theory : 80 marks**  
**forty minutes**

**M.C.Q. : Twenty minutes                      M.C.Q. : 20 marks**

**Answer ALL questions.**

**I. Essay :    (2 × 15 = 30)**

**(1) Describe the development of Diaphragm and discuss the management of congenital diaphragmatic hernia.**

**(2) Describe the embryogenesis of the duplication of the alimentary tract and discuss the clinical features and management of colonic duplications.**

**II. Write short notes on :                      (10 × 5 = 50)**

**(a) Colonic atresia.**

**(b) Rectovaginal fistula.**

**(c) Congenital lobar emphysema.**

**(d) Bronchogenic cysts.**

**(e) Post-natal assessment of accidentally diagnosed hydronephrosis.**

**(f) Clinical applications of Laser in neonatal surgery.**

**(g) Types of Pouch Colon.**

**(h) Bile Ascitis.**

**(i) Embryogenesis of posterior urethral valves.**

**(j) Management of hydrometrocolpos in the new born.**

FEBRUARY - 2006

[KO 049]

Sub. Code : 1702

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch V — Paediatric Surgery

Paper II — NEONATAL SURGERY

Time : Three hours

Maximum : 100 marks

Theory : Two hours and  
forty minutes

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

I. Essay :

(2 × 15 = 30)

(1) Discuss the embryology and classification of Congenital anorectal malformations.

(2) Discuss the investigations and aetiology of a jaundiced baby.

II. Write short notes on : (10 × 5 = 50)

- (a) Management of long gap esophageal atresia
- (b) Congenital lobar emphysema
- (c) Disseminated intravascular coagulation
- (d) Pulmonary hypertension in congenital diaphragmatic hernia
- (e) Neonatal hypoglycemia
- (f) Sepsis in newborn
- (g) Primary repair of high anorectal malformation
- (h) Complications of repair of esophageal atresia
- (i) Gastric outlet obstruction
- (j) Patent vitello-intestinal duct.

AUGUST - 2006

**[KP 049]**

**Sub. Code : 1702**

**M.Ch. DEGREE EXAMINATION.**

**(Higher Specialities)**

**(Revised Regulations)**

**Branch V — Paediatric Surgery**

**Paper II — NEONATAL SURGERY**

**Time : Three hours**

**Maximum : 100 marks**

**Theory : Two hours and  
forty minutes**

**Theory : 80 marks**

**M.C.Q. : Twenty minutes**

**M.C.Q. : 20 marks**

**Answer ALL questions.**

**I. Essay :**

(1) Discuss a neonate with large cervical swelling under the following :

(a) Etiology and role of antenatal ultrasound

(b) Clinical presentation

(c) Management

(d) Complications. (3 + 4 + 10 + 3)

(2) Discuss the special problems in the management of Low Birth Weight and Small for gestational age babies. (15)

(3) List the causes of neonatal ascites and discuss the management of a neonate with urinary ascites. (15)

**II. Write short notes on : (6 × 5 = 30)**

(a) Difference between exomphalos and gastroschisis

(b) Apple Peel small bowel atresia

(c) Antenatal diagnosis of neural tube defects

(d) Evaluation of Neonatal Cholestasis

(e) Stage IV-S Neuroblastoma

(f) Transitional nephrology.



FEBRUARY - 2007

[KQ 049]

Sub. Code : 1702

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch V — Paediatric Surgery

Paper II — NEONATAL SURGERY AND UROLOGY

Time : Three hours

Maximum : 100 marks

Theory : Two hours and  
forty minutes

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

I. Essay :

1. Discuss necrotising enterocolitis in a neonate under the following :

(a) Etiology and pathogenesis

(b) Clinical presentation

(c) Diagnosis

(d) Management.

(3 + 3 + 4 + 10)

2. Discuss the mechanism of thermoregulation in new born and discuss the causes and effects of hypothermia following major surgery. (15)

3. Discuss the management of antenatally diagnosed hydronephrosis. (15)

II. Write Short notes on : (6 × 5 = 30)

1. Apgar score

2. Female pseudo hermaphroditism

3. Multicystic dysplastic kidney

4. Ureterocele

5. Distal penile hypospadias.

6. Vestibular fistulas (ARM).

August-2007

**[KR 049]**

**Sub. Code : 1702**

**M.Ch. DEGREE EXAMINATION.**

**(Higher Specialities)**

**(Revised Regulations)**

**Branch V — Paediatric Surgery**

**Paper II — NEONATAL SURGERY AND UROLOGY**

**Time : Three hours**

**Maximum : 100 marks**

**Theory : Two hours and  
forty minutes**

**Theory : 80 marks**

**M.C.Q. : Twenty minutes**

**M.C.Q. : 20 marks**

**Answer ALL questions.**

**1. Essay :**

**(a) A 10 day old baby boy is admitted with complaints of poor urinary stream since birth and a palpable bladder. Discuss under the following :**

**(i) investigations.**

**(ii) pre-operative medical management.**

- (iii) operative procedures.
- (iv) follow-up protocol and long-term management. (5 + 5 + 5 + 5 = 20)

(b) A 3-day-old baby girl is admitted with a very large sacrococcygeal teratoma. Discuss under the following :

- (i) embryology and role of antenatal ultrasound.
- (ii) associated problems with a large tumor.
- (iii) surgical management.
- (iv) prognostic factors. (4 + 4 + 4 + 3 = 15)

(c) Discuss the management of persistent cloaca under the following :

- (i) embryology.
- (ii) classification and investigations.
- (iii) operative techniques.
- (iv) long-term management. (3 + 4 + 4 + 4 = 15)

2. Write short notes on : (6 × 5 = 30)

- (a) Role of mechanical ventilation in neonatal surgery.
- (b) Management of inferior vena cava thrombus in Wilms tumour.
- (c) Neonatal testicular torsion.

- (d) Outcome in gastroschisis.
  - (e) Complicated meconium ileus.
  - (f) Biliary anomalies in duodenal atresia.
-

August 2008

[KT 049]

Sub. Code: 1702

**M.Ch. DEGREE EXAMINATION**

**(Higher Specialities)**

**(Revised Regulations)**

**Branch V – Paediatric Surgery**

**Paper II – NEONATAL SURGERY AND UROLOGY**

*Q.P. Code: 181702*

**Time: Three hours**

**Maximum: 100 Marks**

**ANSWER ALL QUESTIONS**

**Draw suitable diagrams wherever necessary.**

**I. Essays:**

**(2 x 20 = 40)**

1. Developmental anomalies of ureteric bud, diagnosis and management of ureterovesical junction anomalies.
2. Embryology, classification, diagnosis and management of high and intermediate anorectal anomalies in male children.

**II. Write short notes on:**

**(10 X 6 = 60)**

1. Congenital mesenchymal haemartoma liver.
  2. Perineal canal.
  3. Bronchial cyst.
  4. Congenital torticollis.
  5. Prunebelly syndrome.
  6. Ectopic testis.
  7. Undiversion.
  8. Recurrent tracheo oesophageal fistula.
  9. Pouch colon.
  10. Gastric volvulus.
-

August 2009

[KV 049]

Sub. Code: 1702

**MASTER OF CHIRURGIAE (M.Ch.) DEGREE EXAMINATIONS**

**(Higher Specialities)**

**Branch V – Paediatric Surgery**

**(Revised Regulations)**

**Paper II – NEONATAL SURGERY AND PAEDIATRIC GENITO  
URINARY SURGERY**

*Q.P. Code: 181702*

**Time: Three hours**

**Maximum: 100 Marks**

**Answer ALL questions**

**Draw suitable diagrams wherever necessary.**

**I. Essays:**

**(2 x 20 = 40)**

1. Discuss the etiopathogenesis, clinical features, diagnosis and management of a new born with necrotizing enterocolitis.
2. Discuss about post-natal management of antenatally detected hydronephrosis.

**II. Write short notes on:**

**(10 x 6 = 60)**

1. Sacrococcygeal teratoma.
2. Pathology and management of biliary atresia.
3. Ectopic ureters.
4. Hydrocephalus.
5. Congenital talipes equino varus.
6. Epispadias.
7. Genetics of hirschsprung's disease.
8. VATERCL Association.
9. Immediate management of anorectal malformation.
10. Obstructed mega-ureter.

\*\*\*\*\*

February 2011

[KY 049]

Sub. Code: 1702

**MASTER OF CHIRURGIAE (M.Ch.) DEGREE EXAMINATIONS**

**(Super Specialities)**

**Branch V – Paediatric Surgery**

**(Revised Regulations)**

**Common to all Candidates**

**Paper II – NEONATAL SURGERY AND PAEDIATRIC GENITO  
URINARY SURGERY**

*Q.P. Code: 181702*

**Time: Three hours**

**Maximum: 100 Marks**

**Answer ALL questions**

**Draw suitable diagrams wherever necessary.**

**I. Essays:**

**(2 x 20 = 40)**

1. Discuss the development of Biliary Tract. Discuss the Biochemical and Histological changes and the role of Imaging in Biliary Atresia.
2. Discuss the causes of Urinary Obstruction in a two-month-old female baby. Describe the Diagnosis and Management of this infant.

**II. Write short notes on:**

**(10 x 6 = 60)**

1. Pancrease Divisum and Annular Pancreas.
2. Vesico – Intestinal Fissure.
3. Neonatal Necrosing Enterocolitis.
4. Female Hypospadias.
5. Congenital Mesoblastic Nephroma.
6. Torsion Testis.
7. Tracheomalacia.
8. Infantile Hypertrophic Pyloric Stenosis.
9. Meconium Peritonitis.
10. Antenatal Diagnosis of Hydronephrosis.

\*\*\*\*\*

August 2011

[KZ 049]

Sub. Code: 1702

MASTER OF CHIRURGIAE (M.Ch.) DEGREE EXAMINATION  
(SUPER SPECIALITIES)

BRANCH V – PAEDIATRIC SURGERY

NEONATAL SURGERY AND PAEDIATRIC GENITO URINARY SURGERY

*Q.P. Code: 181702*

**Time : 3 hours  
(180 Min)**

**Maximum : 100 marks**

**Answer ALL questions in the same order.**

**I. Elaborate on :**

**Pages Time Marks  
(Max.) (Max.) (Max.)**

- |  |    |    |    |
|--|----|----|----|
| 1. Discuss short bowel syndrome under the following:<br>Pathophysiology adaptation, medical management and<br>Surgical management.       | 11 | 35 | 15 |
| 2. Discuss Meconium ileus under the following:<br>Pathophysiology, pathological classification signs and<br>And symptoms and management. | 11 | 35 | 15 |

**II. Write notes on :**

- |  |   |    |   |
|--|---|----|---|
| 1. Causes of renal vein thrombosis in neonate and infancy.   | 4 | 10 | 7 |
| 2. Causes of Vesico urethral reflux.   | 4 | 10 | 7 |
| 3. Intestinal neuronal dysplasia.  | 4 | 10 | 7 |
| 4. Consequences of inserting gastrointestinal segments into<br>Urinary tract for Augmentation or Diversion procedures. | 4 | 10 | 7 |
| 5. Horse Shoe Kidney.  | 4 | 10 | 7 |
| 6. Tracheal and Bronchial Malacia.   | 4 | 10 | 7 |
| 7. Male Pseudohermophrodite.   | 4 | 10 | 7 |
| 8. Embryology of urinary bladder and urethra development.  | 4 | 10 | 7 |
| 9. Embryology of posterior urethral valve.   | 4 | 10 | 7 |
| 10. Embryological theories for ureterocele development.  | 4 | 10 | 7 |

\*\*\*\*\*

[LB 049]

AUGUST 2012

Sub. Code: 1702

**M.Ch – PAEDIATRIC SURGERY**  
**Paper – II NEONATAL SURGERY AND PAEDIATRIC**  
**GENITO URINARY SURGERY**

*Q.P. Code: 181702*

**Time : 3 hours**  
**(180 Min)**

**Maximum : 100 marks**

**Answer ALL questions in the same order.**

<b>I. Elaborate on :</b>	<b>Pages (Max.)</b>	<b>Time (Max.)</b>	<b>Marks (Max.)</b>
1. Discuss Pierre Robin Anomalies under the following headings. i) Definition ii) Aetiology iii)Symptoms and signs iv) Treatment.	16	35	15
2. Discuss Prune Belly syndrome under the following headings i) Pathogenesis ii) Clinical features iii) Management.	16	35	15
<b>II. Write notes on :</b>			
1. What are urachal remnants and describe the treatment for each?	4	10	7
2. Write about the pathological anatomy of congenital intrinsic obstruction of the antrum and pylorus of the stomach.	4	10	7
3. What are the theories postulated to explain intestinal atresia?	4	10	7
4. Write a short note on the stages of neonatal necrotizing enterocolitis.	4	10	7
5. Write about the treatment modalities available for urinary lithiasis.	4	10	7
6. What is the treatment for Renal vein thrombosis?	4	10	7
7. Write a short note on congenital ureteral anomalies causing urine out flow impairment.	4	10	7
8. Write a note on primary nocturnal enuresis.	4	10	7
9. Write a short note on masses presenting at the Introitus.	4	10	7
10. Write a brief note on obstructive mega ureter.	4	10	7

\*\*\*\*\*



**(LD 049)**

**AUGUST 2013**

**Sub. Code:1702**

**M.Ch. – PAEDIATRIC SURGERY**  
**Paper – II NEONATAL SURGERY AND PAEDIATRIC GENITO**  
**URINARY SURGERY**  
*Q.P.Code: 181702*

**Time: Three Hours**

**Maximum: 100 marks**

**I. Elaborate on:**

**(2X15=30)**

1. The embryology, classification, diagnosis, management and complications Jejunio ileal atresia.
2. The surgical anatomy, presentation, evaluation and management of Posterior Urethral Valves.

**II. Write notes on:**

**(10X7=70)**

1. Ureterocele.
2. Exomphalos.
3. Pierre Robin Syndrome.
4. Torticollis.
5. Ovarian Torsion.
6. Pathology of Wilms' Tumour.
7. Lymphomas.
8. Prophylactic antibiotics in UTI.
9. Palpable undescended testis.
10. Sequelae of Urinary Tract Infections.

\*\*\*\*\*

[LF 049]

AUGUST 2014

Sub. Code: 1702

**M.Ch. – PAEDIATRIC SURGERY**  
**Paper II – NEONATAL SURGERY AND PAEDIATRIC**  
**GENITO URINARY SURGERY**

*Q. P. Code: 181702*

**Time: Three Hours**

**Maximum: 100 Marks**

**Answer ALL questions in the same order.**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Discuss Esophageal atresia and Tracheo-esophageal fistula under the following headings:
  - i) Anatomic classification
  - ii) Diagnosis and clinical findings and
  - iii) Management of Long Gap Atresia.
  
2. Classify Germ cell tumours. Describe the presentation, investigations and management in a case of Sacrococcygeal teratoma.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Fulguration of posterior urethral valve in a neonate.
2. Necrotising fasciitis.
3. Arnold Chiari malformation.
4. Prognostic factors in Diaphragmatic hernia.
5. Ectopic Ureter.
6. Choledochal cyst.
7. Hypospadias- embryology.
8. Acid base imbalance in female neonate with congenital adrenal hyperplasia.
9. Small left colon Syndrome.
10. Vitello intestinal duct.

\*\*\*\*\*