

APRIL - 2001

[KD 051]

Sub. Code : 1704

M.Ch. DEGREE EXAMINATION

(Higher Specialities)

Branch V — Paediatric Surgery

(Revised Regulations)

Paper IV — RECENT ADVANCES IN PAEDIATRIC
SURGERY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss the progress made in "Organ transplantation" in children. (30)
2. Discuss the advances and the changing trends in the diagnosis and management of Hirschsprung's Disease. (30)
3. Write briefly on : (4 × 10 = 40)
 - (a) High frequency ventilation
 - (b) LASERs in Paediatric Surgery
 - (c) Flexible fiberoptic endoscopy in children
 - (d) Recent trends in the diagnosis of gastro-oesophageal reflux.

NOVEMBER - 2001

[KE 051]

Sub. Code : 1704

M.Ch. DEGREE EXAMINATION

(Higher Specialities)

(Revised Regulations)

Branch V — Paediatric Surgery

**Paper IV — RECENT ADVANCES IN
PAEDIATRIC SURGERY**

Time : Three hours

Maximum : 100 marks

Answer ALL questions

1. Discuss the role and scope of key-hole surgery in paediatric surgical practice. (30)
 2. Discuss the current concepts in management of Inflammatory Bowel Diseases in children. (30)
 3. Write briefly on :
 - (a) E.C.M.O. (10)
 - (b) Intractable Ascities. (10)
 - (c) V.P. Shunt. (10)
 - (d) Rectal Manometry Study (10)
-

MARCH - 2002

[KG 051]

Sub. Code : 1704

M.CH. DEGREE EXAMINATION

(Higher Specialities)

(Revised Regulations)

Branch V — Paediatric Surgery

**Paper IV — RECENT ADVANCES IN PAEDIATRIC
SURGERY**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Describe the recent advances made in the management of diaphragmatic hernias in children in the clinical and experimental fields. (30)
 2. What is Foetal surgery describe its applications in the antenatal correction of Congenital malformations available now? (30)
 3. Write short notes on :
 - (a) Tissue expanders (10)
 - (b) OK 436 (10)
 - (c) Genetic markers in Wilms tumor (10)
 - (d) Intestinal transplantations. (10)
-

SEPTEMBER - 2002

[KH 051]

Sub. Code : 1704

M.Ch. DEGREE EXAMINATION

(Higher Specialities)

(Revised Regulations)

Part IV — Branch V — Paediatric Surgery

RECENT ADVANCES IN PAEDIATRIC SURGERY

Time : Three hours

Maximum : 100 marks

Answer ALL questions

1. Describe the role of liver transplantations in children under the following Headings :

- (a) Indications
- (b) Types and methods
- (c) Post operative management
- (d) Prognosis (30)

2. Describe the malignant ovarian tumors under the following :

- (a) Disease classification and staging
- (b) Pathology of germ cell tumors
- (c) Management of germ cell tumors (30)

3 Write short notes on

- (a) Bone lengthening (10)
- (b) Use of laser in paediatric surgery (10)
- (c) Video endoscopic foetal surgery (10)
- (d) Pancreatic transplants (10)

APRIL - 2004

[KK 051]

Sub. Code : 1704

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch V — Paediatric Surgery

Paper IV — RECENT ADVANCES IN
PAEDIATRIC 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) Describe the advances in the management of congenital diaphragmatic hernia detected at 20 weeks of gestation.

(2) Describe the role of MIBG therapy in children with neuroblastoma.

B. Short notes :

(10 × 5 = 50)

(1) Indications of surgical intervention in neonatal necrotising enterocolitis.

(2) Bowel preparation for pull through for Hirschsprung's disease.

(3) Use of laparoscopy in bilateral undescended testis.

(4) Endoscopic treatment for congenital hydrocephallus.

(5) Non-operative management of pseudocyst of pancreas.

(6) Congenital asymptomatic unilateral hydronephrosis.

(7) Chemotherapy schedule for stage 3 Wilms tumor.

(8) Indications for liver transplantation in children.

(9) Ectopia cordis.

(10) Recurrent fistula after TEF repair.

[KK 051]

FEBRUARY - 2005

[K051]

Sub. Code : 1704

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch V — Paediatric Surgery

**Paper IV — RECENT ADVANCES IN PAEDIATRIC
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 current concepts in the
management of Vesico-ureteric reflux.**

**(2) Discuss the current concepts in the
management of short bowel syndrome.**

II. Write short notes : (10 × 5 = 50)

(a) Molecular genetics in Wilms' tumor

(b) Prognostic predictors in Biliary atresia

**(c) Indications for orthotopic Liver
transplantation in children**

(d) Post operative pain relief in children

**(e) Antenatal prognostic factors in cong.
diaphragmatic hernia**

(f) Risk factors predisposing to Neonatal sepsis

(g) High frequency ventilation

(h) Genetic factors in Hirschsprung's disease

(i) Gene therapy in paediatric surgery

(j) Antenatal diagnosis of oesophageal atresia.

FEBRUARY - 2006

[KO 051]

Sub. Code : 1704

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch V — Paediatric Surgery

**Paper IV — RECENT ADVANCES IN PAEDIATRIC
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 advances in the management of
Hirschsprung's disease.**

**(2) Discuss the indications and principles of
laparoscopy in pediatric age group.**

II. Write short notes on :

(10 × 5 = 50)

(a) Prevention of neural tube defects

**(b) Hydronephrosis due to Ureteropelvic
junction obstruction**

**(c) Pharmacological therapy of voiding
dysfunction**

**(d) Antenatal therapy in congenital
diaphragmatic hernia**

**(e) Bowel management program in fecal
incontinence**

(f) Neuroendoscopic surgery for hydrocephalus

**(g) Nitric oxide and high frequency ventilation
in Congenital diaphragmatic hernia**

(h) Role of magnetic resonance Urography

**(i) Antenatally detected bilateral
hydronephrosis**

**(j) Postoperative management of children after
Kasai procedure for biliary atresia.**

AUGUST - 2006

[KP 051]

Sub. Code : 1704

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch V — Paediatric Surgery

**Paper IV — RECENT ADVANCES IN
PAEDIATRIC 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 prenatal and postnatal assessment
and clinical approach to a case of antenatally diagnosed
hydronephrosis. (20)**

**(2) Discuss the advances in management of
Exstrophy repair. (15)**

**(3) Discuss the newer modalities of treatment of
congenital diaphragmatic hernia. (15)**

II. Write short notes on :

(6 × 5 = 30)

(a) Principles of Gene therapy

(b) Small round cell tumours

(c) Access for dialysis in children

(d) Living related liver transplantation

(e) Thoracoscopy in children

(f) Laser therapy

FEBRUARY - 2007

[KQ 051]

Sub. Code : 1704

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch V — Paediatric Surgery

**Paper IV — RECENT ADVANCES IN PAEDIATRIC
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 Liver transplantation in children. (20)**
- 2. Discuss the recent advances in the management of Neuroblastoma with special emphasis on prognostic factors and tumor genetics. (15)**
- 3. Discuss the role of Laparoscopy in Paediatric Surgery. (15)**

II. Write short notes on :

(6 × 5 = 30)

- 1. Importance of umbilical cord blood.**
 - 2. Role of OK 432.**
 - 3. Pouch colon.**
 - 4. High frequency oscillatory ventilation.**
 - 5. Barotrauma.**
 - 6. Post splenectomy sepsis.**
-

August-2007

[KR 051]

Sub. Code : 1704

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch V — Paediatric Surgery

**Paper IV — RECENT ADVANCES IN PAEDIATRIC
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 questions :

1. Discuss all the requirements to setup a neonatal surgical intensive care unit. (20)
2. Describe the etiopathology of empyema thoracis. Discuss the medical and surgical management of this condition including the role of thoracoscopy. (15)
3. Describe techniques to safely access fetus for surgical intervention and discuss potential complications and their management. (15)

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

- (a) Advantages of robotic technology in pediatric laparoscopy
- (b) Present status of antenatal diagnosis in India
- (c) Laparoscopy in Hirschsprung's disease
- (d) Surgical techniques to minimize complications in choledochal cyst
- (e) Minimally invasive pectus excavatum repair
- (f) Assessment of postoperative results in anorectal malformations.

August 2008

[KT 051]

Sub. Code: 1704

M.Ch. DEGREE EXAMINATION

(Higher Specialities)

(Revised Regulations)

Branch V – Paediatric surgery

Paper IV – RECENT ADVANCES IN PAEDIATRIC SURGERY

Q.P. Code: 181704

Time: Three hours

Maximum: 100 Marks

ANSWER ALL QUESTIONS

Draw suitable diagrams wherever necessary.

I. Essay:

(2 x 20 = 40)

1. Discuss in detail embryology, various types and operative management of hypospadias in male children.
2. Pathogenesis, Epidemiology, diagnosis, staging and management of wilm's tumor

II. Write short notes on:

(10 x 6 = 60)

1. Thoracoscopy in empyema thoracis.
 2. Laparoscopy in anorectal anomalies.
 3. Annular pancreas.
 4. Splenic trauma and management.
 5. Multicystic kidney.
 6. Urinary ascitis.
 7. Anterior urethral diverticulum.
 8. High frequency ventilation.
 9. Craniophagus twins.
 10. Microcolon.
-

August 2009

[KV 051]

Sub. Code: 1704

MASTER OF CHIRURGIAE (M.Ch.) DEGREE EXAMINATIONS

(Super Specialities)

Branch V – Paediatric Surgery

(Revised Regulations)

Paper IV – RECENT ADVANCES IN PAEDIATRIC SURGERY

Q.P. Code: 181704

Time: Three hours

Maximum: 100 Marks

Answer ALL questions

Draw suitable diagrams wherever necessary.

I. Essays:

(2 x 20 = 40)

1. Discuss the recent trends in the management of primary vesico ureteric reflux in a girl aged 5 years.
2. Discuss the role of laparoscopy in paediatric surgery.

II. Write short notes on:

(10 x 6 = 60)

1. Cytogenetics of Wilm's tumour.
2. Extracorporeal membrane oxygenation.
3. Substitutes for oesophageal replacement.
4. Endodermal sinus tumour.
5. Conservative management of renal trauma.
6. Rectobulbar urethral fistula.
7. Duodenal web.
8. Liver transplantation in children.
9. Weighert – Meyer rule.
10. Opportunistic post splenectomy infection.

February 2011

[KY 051]

Sub. Code: 1704

MASTER OF CHIRURGIAE (M.Ch.) DEGREE EXAMINATIONS

(Super Specialities)

Branch V – Paediatric Surgery

(Revised Regulations)

Common to all Candidates

Paper IV – RECENT ADVANCES IN PAEDIATRIC SURGERY

Q.P. Code: 181704

Time: Three hours

Maximum: 100 Marks

Answer ALL questions

Draw suitable diagrams wherever necessary.

I. Essays:

(2 x 20 = 40)

1. Discuss the Molecular Morphogenesis of Oesophagel Atresia. Discuss the Role of Gastric Transportation and Tissue Engineering in Long Gap Oesophageal Atresia.
2. Discuss the various causes of Intestinal Motility Disorder in Children. Describe the spectrum of presentations and Management Options in Hirschsprungs Disease.

II. Write short notes on:

(10 x 6 = 60)

1. Autologous Intestinal Reconstruction Surgery.
2. Percutaneous Endoscopic Gastrostomy.
3. Persistent Pulmonary Hypertension.
4. Embryology and Classification of Ano-Rectal Malformations.
5. Cytogenetics of Wilms Tumour.
6. Thoracoscopy in Children.
7. Cloacal Exstrophy.
8. Cystoscopy for Vesico-Ureteral Reflux.
9. Laparoscopic Pyloromyotomy.
10. Impalpable Testes.

August 2011

[KZ 051]

Sub. Code: 1704

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

BRANCH V – PAEDIATRIC SURGERY

RECENT ADVANCES IN PAEDIATRIC SURGERY

Q.P. Code: 181704

**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 Kidney transplantation under causes of end stage renal disease, donor selection operative procedure and early post operative complications. | 11 | 35 | 15 |
| 2. Discuss under Burns under the following: fluid resuscitation, infection control nutrition, wound care and assessment and pain management. | 11 | 35 | 15 |

II. Write notes on :

- | | | | |
|---|---|----|---|
| 1. Single incision Laparoscopic surgery appendicectomy and its complication. | 4 | 10 | 7 |
| 2. Laparoscopic inguinal hernia inversion and ligation in female children. | 4 | 10 | 7 |
| 3. Role of preoperative ultrasound on correct diagnosis of urachal remnant. | 4 | 10 | 7 |
| 4. Umbilioplasty with three triangular skin flaps and excised diamond shaped skin flap. | 4 | 10 | 7 |
| 5. Short note on trans anoproctoplasty. | 4 | 10 | 7 |
| 6. Percutaneous Endoscopic gastrostomy. | 4 | 10 | 7 |
| 7. Spinal cord injury without radiographic abnormality. | 4 | 10 | 7 |
| 8. Total urogenital mobilization. | 4 | 10 | 7 |
| 9. Growth hormone in intestinal failure. | 4 | 10 | 7 |
| 10. Abnormal lung development in congenital diaphragmatic Hernia. | 4 | 10 | 7 |

[LB 051]

AUGUST 2012

Sub. Code: 1704

M.Ch – PAEDIATRIC SURGERY

Paper – IV RECENT ADVANCES IN PAEDIATRIC SURGERY

Q.P. Code: 181704

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

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

	Pages (Max.)	Time (Max.)	Marks (Max.)
1. Discuss continent urinary Diversion procedures. Mention the advantages and disadvantages of each procedure.	16	35	15
2. Discuss the surgical reconstruction procedures for female gender assignment in an Ambiguous genitalia patient.	16	35	15

II. Write notes on :

1. Write a short note on foetal Endoscopic surgery.	4	10	7
2. Write the advantages, disadvantages and procedures for foetal surgery for cleft lip and palate.	4	10	7
3. Write a note on the role of splenectomy in Hodgkins disease.	4	10	7
4. Post operative complications after inguinal hernia repair.	4	10	7
5. How will you treat mature cystic teratomas of the ovary – recent advances?	4	10	7
6. How will you treat a case of true hermaphrodite?	4	10	7
7. Write a brief note on ureteroscopic techniques for treatment of lower ureteric stones?	4	10	7
8. Role of prenatal intervention of obstructive uropathy?	4	10	7
9. Write a short note on urodynamic studies?	4	10	7
10. Role of prosthetic materials in the management of thermal injuries?	4	10	7

M.Ch. – PAEDIATRIC SURGERY
Paper – IV RECENT ADVANCES IN PAEDIATRIC SURGERY
Q.P.Code: 181704

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2X15=30)

1. Antenatal diagnosis and postnatal management of unilateral Hydro-nephrosis.
2. Congenital abdominal wall defects.

II. Write notes on:

(10X7=70)

1. Intussusception – Non operative management.
2. Urinary ascites.
3. Chemotherapy of Wilms' Tumour.
4. Sclerotherapy.
5. Neural tube defects.
6. Oesophageal replacement.
7. Laparoscopic fundoplication.
8. Nephrogenic rests.
9. Neuroblastoma.
10. Ureteric stenting.

M.Ch. – PAEDIATRIC SURGERY
Paper – IV RECENT ADVANCES IN PAEDIATRIC SURGERY
Q.P.Code: 181704

Time: Three Hours

Maximum: 100 marks

I. Elaborate on: **(2X15=30)**

1. Discuss the following with reference to a mass abdomen in the infant:
i) Clinical features ii) Investigations iii) Differential diagnosis
iv) Management.
2. Discuss short bowel syndrome with respect to :i) Causes ii) Clinical
Picture iii) Complications iv) Management.

II. Write notes on: **(10X7=70)**

1. Day care surgery in children.
2. Polytrauma in children.
3. Ano rectal manometry.
4. Split notochord syndrome.
5. Craniosynostosis.
6. Uses of Laser in paediatric surgery.
7. Stem cell therapy.
8. Physiological jaundice.
9. Role of laparoscope in undescended testis.
10. Lung pathology in congenital diaphragmatic hernia.

M.Ch. – PAEDIATRIC SURGERY

Paper IV – RECENT ADVANCES IN PAEDIATRIC SURGERY

Q.P.Code: 181704

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the recent advances in the management of Neuroblastoma with special emphasis on prognostic factors and tumor genetics.
2. Discuss the pathophysiology of empyema thoracis. What investigations are required in the management of a case? Discuss the procedure of decortication and mention the impact of thoracoscopy on the management of empyema.

II. Write notes on:

(10 x 7 = 70)

1. Central venous access.
2. Neonatal surgery intensive care set up – basic requirement.
3. Tethered cord syndrome.
4. Acute scrotal swelling in a neonate.
5. Patent ductus arteriosus [PDA].
6. PET scan.
7. Small round cell tumors Immuno histochemistry.
8. Pectus excavatum.
9. Laparoscopic appendicectomy.
10. Micro colon.

(LJ 051)

AUGUST 2016

Sub. Code:1704

M.Ch. – PAEDIATRIC SURGERY

Paper IV – RECENT ADVANCES IN PAEDIATRIC SURGERY

Q.P.Code: 181704

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the Role of Laparoscopy in Paediatric surgery.
2. How would you investigate a neonate with Jaundice? Describe the Etiology, Pathology, Clinical Features and Management of Biliary Atresia.

II. Write notes on:

(10 x 7 = 70)

1. Tracheomalacia.
2. Fetus in Fetu.
3. Shunt surgeries of Portal Hypertension.
4. Forme Frustae choledochal cyst.
5. Malone Procedure.
6. Treatment of Haemangioma in children.
7. Encephalocele.
8. Trichobezoar.
9. Retrocaval Ureter.
10. Fine Needle Aspiration Cytology.

(LK 051)

FEBRUARY 2017

Sub. Code:1704

M.Ch. – PAEDIATRIC SURGERY

Paper IV – RECENT ADVANCES IN PAEDIATRIC SURGERY

Q.P.Code: 181704

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the etiopathogenesis, clinical presentation, diagnostic evaluation and principles of a management of Choledochal cyst.
2. How will you organize a regional paediatric trauma center?

II. Write notes on:

(10 x 7 = 70)

1. Harmonic scalpel.
2. Post splenectomy sepsis.
3. Persistent pulmonary hypertensions.
4. Cytokines.
5. LCH [Langerhan Cell Histiocytosis].
6. Invertogram.
7. Hypospadias cripple.
8. Knudson's hypothesis in Worn's Tumour.
9. Pneumatic reduction in Intussusception.
10. Lower esophageal sphincter.

(LM 051)

FEBRUARY 2018

Sub. Code: 1704

M.Ch. – PAEDIATRIC SURGERY

Paper IV – RECENT ADVANCES IN PAEDIATRIC SURGERY

Q.P.Code: 181704

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the role of Gastric Transposition and Tissue Engineering in Long Gap Oesophageal Atresia.
2. Describe the role of various imaging techniques used in Paediatric Surgery.

II. Write notes on:

(10 x 7 = 70)

1. Video- assisted throscopic surgery.
2. Extra Corporeal Membrane Oxygenation.
3. Non Palpable Testis.
4. Fetal surgery.
5. Craniosynostosis.
6. Lasers in Paediatric surgery.
7. BCG adenitis.
8. Conjoined Twins.
9. Tethered cord syndrome.
10. Immunosuppressants used in liver transplant.

(LN 051)

AUGUST 2018

Sub. Code: 1704

M.Ch. – PAEDIATRIC SURGERY

Paper IV – RECENT ADVANCES IN PAEDIATRIC SURGERY

Q.P.Code: 181704

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on: (2 x 15 = 30)

1. Recent advances in chemotherapy of paediatric solid tumours.
2. Nutrition in the surgically ill child.

II. Write notes on: (10 x 7 = 70)

1. Prognostic factors in congenital diaphragmatic hernia.
2. Choanal atresia.
3. Congenital esophageal stenosis.
4. Tracheostomy in children.
5. Anorectal manometry.
6. Perineal canal.
7. Positron emission tomography (PET scan).
8. N-myc amplification.
9. Lung biopsy.
10. Mayer-Rokitansky-Küster-Hauser (MRKH) syndrome.

(LO 051)

FEBRUARY 2019

Sub. Code: 1704

M.Ch. – PAEDIATRIC SURGERY

Paper IV – RECENT ADVANCES IN PAEDIATRIC SURGERY

Q.P. Code: 181704

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the etiology, clinical features and management of biliary atresia and role of orthotopic liver transplantation.
2. Embryology, prognostic factors and management of Congenital Diaphragmatic Hernia.

II. Write notes on:

(10 x 7 = 70)

1. Post splenectomy sepsis.
2. Microcolon.
3. Duodenal atresia.
4. Necrotising enterocolitis.
5. Annular pancreas.
6. Non operative management of Intussusception.
7. Thyroglossal cyst.
8. Bleeding PR in neonate.
9. Recent classification of Anorectal anomaly.
10. Antenatally detected bilateral hydroureteronephrosis.

(LP 051)

AUGUST 2019

Sub. Code: 1704

M.Ch. – PAEDIATRIC SURGERY

Paper IV – RECENT ADVANCES IN PAEDIATRIC SURGERY

Q.P. Code: 181704

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Current concepts in enteric nervous system.
2. Describe the current concepts in Fetal surgery.

II. Write notes on:

(10 x 7 = 70)

1. Robotic surgery.
2. Oesophageal pH monitoring.
3. Pharmacological therapy in voiding dysfunction.
4. Pulmonary isomerism.
5. EC scan.
6. Mesohepatectomy.
7. Cystometry.
8. Splenic trauma management.
9. Solitary thyroid swelling.
10. Tethered cord.

(LR 051)

**NOVEMBER 2020
(AUGUST 2020 SESSION)**

Sub. Code: 1704

M.Ch. – PAEDIATRIC SURGERY

Paper IV – RECENT ADVANCES IN PAEDIATRIC SURGERY

Q.P. Code: 181704

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on: **(2 x 15 = 30)**

1. Assesment, etiopathogenesis, management of paediatric obesity.
2. Discuss the molecular techniques in diagnosis of neoplastic and non neoplastic conditions in paediatric surgery practice.

II. Write notes on: **(10 x 7 = 70)**

1. Budd chiari syndrome
2. High risk neuroblastoma
3. Auxillary liver transplantation
4. Current methods of pain management in children
5. Chemotherapy ports
6. Urinary biomarkers in posterior urethral valve
7. Hemofiltration
8. Empyemathoracis
9. Videocapsule endoscopy
10. Enhanced recovery after surgery (ERAS)

(MCH 0821)

AUGUST 2021

Sub. Code: 1704

M.Ch. – PAEDIATRIC SURGERY

Paper IV – RECENT ADVANCES IN PAEDIATRIC SURGERY

Q.P. Code: 181704

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss Tissue engineering and stem cell therapy in paediatric surgery.
2. Discuss continent urinary diversion.

II. Write notes on:

(10 x 7 = 70)

1. Cloves syndrome.
2. Ectopia cordis.
3. Cytokines in neonatal necrotising enterocolitis.
4. Side effects of parenteral nutrition.
5. Necrotising pancreatitis.
6. Focal foveolar hyperplasia.
7. Single stage urethroplasty for hypospadias.
8. Clear cell sarcoma kidney.
9. Macroglossia.
10. Choanalatresia.

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

(MCH 0822)

AUGUST 2022

Sub. Code: 1704

M.Ch. – PAEDIATRIC SURGERY

Paper IV – RECENT ADVANCES IN PAEDIATRIC SURGERY

Q.P. Code: 181704

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on: **(2 x 15 = 30)**

1. Enumerate the surgical causes of Respiratory distress in the newborn.
Discuss the embryology, diagnosis and recent advances in the management of Congenital Diaphragmatic Hernia.
2. Discuss about the indications, operative procedure and post-operative management of intestinal transplantation.

II. Write notes on: **(10 x 7 = 70)**

1. Nephron Sparing Surgery.
2. Robotic Surgery in Children.
3. Renal Scintigraphy.
4. Immunohistochemistry in Paediatric Tumours.
5. Clean Intermittent Catheterisation.
6. SRY, SOX-9, DAX-1 Genes.
7. PRETEXT Staging of Hepatoblastoma.
8. Cancer targeted therapy.
9. Nuss procedure.
10. Negative pressure wound dressing.

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

(MCH 0124)

JANUARY 2024

Sub. Code: 1704

M.Ch. – PAEDIATRIC SURGERY

PAPER IV – RECENT ADVANCES IN PAEDIATRIC SURGERY

Q.P. Code: 181704

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on: **(2 x 15 = 30)**

1. Discuss various Endourology Procedures for Urolithiasis in children.
2. Indications for Esophageal Replacement and current trends in Esophageal replacement.

II. Write notes on: **(10 x 7 = 70)**

1. VATS in Children.
2. Neuro endoscopic Surgery for Hydrocephalus.
3. LASERs in Paediatric Surgery.
4. Umbrella Protocol for Wilms Tumor.
5. SPECT Scan.
6. TUM Procedure.
7. High Pressure Loopogram.
8. N-myc amplification.
9. Botox in Paediatric Surgery.
10. Day care surgery in children.

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

(MCH 0225)

FEBRUARY 2025

Sub. Code: 1704

M.Ch. BRANCH V – PAEDIATRIC SURGERY

PAPER IV – RECENT ADVANCES IN PAEDIATRIC SURGERY

Q.P. Code: 181704

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. What is ICG? Elaborate on the use of ICG in Paediatric Surgery.
2. What are the requirements that must be fulfilled before prescribing bariatric surgical options for a paediatric patient? What are the different surgical options in Paediatric bariatric surgery?

II. Write notes on:

(10 x 7 = 70)

1. Distal Intestinal Obstruction Syndrome.
2. Laryngotracheal cleft.
3. DTPA Gadolinium Urogram.
4. Pancreatic Duplication.
5. Non-invasive Ventilation.
6. How would you counsel parents of preterm neonate Born with Undescended testis?
7. Brachytherapy in Paediatric cancers.
8. Vacuum dressing.
9. Multichannel Intraluminal Impedance Monitoring.
10. PEG Gastrostomy.
