APRIL - 2001

[KD 048] Sub. Code : 1701 3. Write briefly on :	(40)
M.Ch. DEGREE EXAMINATION. (a) Biochemical changes in a case pyloric stenosis.	of congenital (10)
(Higher Specialities) (b) embryological basis for pesophe	ageal atresia. (10)
Branch V — Paediatric Surgery	1. N. 1
(Revised Regulations) (c) Rotation of midgut and class malrotation.	sification of (10)
Paper I — BASIC SCIENCES AS APPLIED TO (d) Physiology of CSF production an PAEDIATRIC SURGERY	nd absorption. (10)
Time : Three hours Maximum : 100 marks	
Answer ALL questions.	
1. Discuss Wilms' tumour with respect to (30)	
Staging. (6)	
Histopathology. (6)	
Associated anomalies/syndromes. (8)	
Affects of preoperative chemotherapy on histopathology. (10)	
2. Discuss the (30)	
Development of biliary tract (6)	
Biochemical changes in biliary atresia. (8)	
Histological changes in liver in case of biliary atresia. (7)	
Role of imaging in biliary atresia. (9) 2	[KD 048]

[KE 048]

Sub. Code : 1701

2.

M.Ch. DEGREE EXAMINATION

(Higher Specialities)

(Revised Regulations)

Branch V - Paediatric Surger:

Paper I - BASIC SCIENCES AS APPLIED TV PAEDIATRIC SURGERY

Time : Three hours

Maximum : 100 mark

Answer ALL questions

1.	Dis	cuss	about	t Media	stinal	Masses	in p	aed	iatri
age	group	o und	ler fol	lowing :					(3(
	(a)	Sun	gical s	inatomy	of Me	diastinu	ł.		(1
	(b)	Cau	ses fo	r Media	stinal	Masse			(f
	(c)	Dia	gnosis	and Inv	restig	ations			(8
	(d)	Sur	gical	tactics	and	techniqu	aes i	for	the
tre	atmen	d.							(1(

	v do you manage a boy of 10 yrs. with hypospadias under following :	seven (30
(a)	Embryology of the Geneto-Urinary syst	em. (6
(b)	Clinical classification and presentation	(6
(c)	Principles of surgical managemen	(10
(d)	Complication	(8
Wri	ite briefly or	
(a)	Agenesis of the diaphragan	(10
(b)	Rectal Atresia	(10
(c)	Nectrotising enteristis in childre	(10
(d)	Arrested hydrocephalou	(10

INSTRUCTION CONTRACTORS IN CONST.

KE 048

[KG 048]

Sub. Code : 1701

3

M.Ch. DEGREE EXAMINATION

(Higher Specialities)

(Revised Regulations)

Branch V - Paediatric Surgery

Paper I - BASIC SCIENCES AS APPLIED TO PAEDIATRIC SURGERY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

Discuss the Anorectal malformations under the 1.1 following headings :

	(a)	Embryology	(5)
	(b)	Types and classification	(5)
	(c)	Diagnosis and associated malformations	(5)
	(d)	Principles of surgery	(10)
	(e)	Post operative assessment.	(5)
2. und		scribe the duplications of kidney and us e following headings :	retera
		Embryology	(10)
	(b)	Types and clinical presentation	(5)
	(c)	Diagnosis	(5)

(10)(d) Management.

Write short notes on : (a) Burns in children (10) (b) Wilms tumour associated syndromes (10) (c) Embryology of malrotation of gut (10) (10)(d) First arch syndrome.

[KH 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

Tim	e : Th	aree ho	ure .	Maximum	: 100 m	arks
1. folk		cribe headi	Hirschsprung's	disease	under	the
	(a)	Embr	yology			(5)
	(b)	Clinic	al presentation a	nd diagnosi	8.	(10)
	(c)	Surgi	cal management			(10)
	(d)	Post	perative assessa	ent.		(5)
2. folic		eribe headir	the testis and it ags :	s snamalie	s under	the
	(a)	Devel	opment of testis			(10)
	(b)	Facto	rs influencing th	e descend o	testes	(10)
	(c)	Mane	gement of undes	cended test	is .	(10)

3	Wri	Write short notes on							
class	(a)	Total parents	ral r	utriti	ani.			(10)	
	(b)	Tumour markers in Neuroblastoma							
	(c) sifica	Embryology tion.	oſ	cleft	lip	and	palate	and (10)	
	(d)	Ectopia vesic	26.					(10)	

Write short notes ---

B. Sub. Code : 1701 Short notes : **[KK 048]** M.Ch. DEGREE EXAMINATION. (2) Pathology of Biliary Atresia. (Higher Specialities) (3) Genetics in Wilm's Tumor. (Revised Regulations) Branch V - Paediatric Surgery (5) Cephalhematoma. Paper I - BASIC SCIENCES AS APPLIED TO (6) Anomalies of thyroglosal tract. PAEDIATRIC SURGERY (7) Sexual differentiation. Maximum : 100 marks Time : Three hours (8) Vitello intestinal duct anomalies. Theory: 80 marks Theory : Two hours and (9) Dynamics of CSF flow. forty minutes M.C.Q.: 20 marks M.C.Q. : Twenty minutes

Answer ALL questions.

 $(2 \times 15 = 30)$ Essay : A.

(1) Describe the various types of developmental anomalies of the malrotation of the gut.

(2) Discuss the basis of pelvic musculature in relation to anorectal malformations.

- $(10 \times 5 = 50)$
 - (1) Role of urodynamics in neurogenic bladder.
 - (4) Relevance of segments in surgery of liver.

(10) Principles of conservative management of splenic trauma.

2

[KK 048]

FEBRUARY - 2005

[KM 048]	Sub. Code : 1701	II. Wri	ite Short notes on :	$(10 \times 5 = 50)$
M.Ch. DEGREE E	XAMINATION.	(a) descent.	Descent of Testis and	abnormality in its
(Higher Spe	cialities)	(b)	Embryology of cleft lip an	id palate.
(Revised Re	gulations)	(c)	Cell biology in Hodgkins	lymphoma.
Branch V - Pace	liatric Surgery	(d)	Biochemical markers in I	Neuroblastoma
Paper I — BASIC SCIEN PAEDIATRIC		(e) applicatio	Segmental hepatic anato on related to Paediatric Sur	
Time : Three hours	Maximum : 100 marks	(1)	Chemotherapy in Rhabd	omyo sarcoma,
Theory : Two hours and	Theory: 80 marks	(g)	Non-surgical management	t of Haemangioma.
forty minutes		(h)	Remnants of second bra	nchial cleft and its
M.C.Q. : Twenty minutes	M.C.Q.: 20 marks	тападел	ient.	
Answer ALL	questions.	6)	Endodermal sinus tumor.	ŝ
L. Essay :	(2 × 15 = 30)	(j)	Caudal anaesthesia.	
(1) Discuss in detail	thermoregulation in the			6

new born and consequence of Hypothermia.

(2) Describe the development of abdominal wall and its defects and discuss the management of omphalocoele.

[KL 048]

[KO 048]

Sub. Code : 1701

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch V --- Paediatric Surgery

Paper I --- BASIC SCIENCES AS APPLIED TO 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.

Essay: (2 × 15 = 30)

 Discuss the principles of total parenteral nutrition as applied to Paediatric Surgery.

(2) Describe the development of esophagus and embryology of congenital anomalies of the esophagus.

- II. Write short notes on : $(10 \times 5 = 50)$
 - (a) Chemotherapy in Wilms tumour
 - (b) Management options in lymphangioma
 - (c) Postobstructive diuresis

(d) Normal pathway of cerebrospinal fluid and levels of block in congenital hydrocephalus

- (e) Alpha feto protein
- (f) Barotrauma
- (g) Nesidioblastosis

(h) Metabolic disturbances in hypertrophic pyloric stenosis

(i) Meconium ileus

(j) Normal intestinal rotation and fixation in fetus.

2

[KO 048]

AUGUST - 2006

[KP 048]	Sub. Code : 1701	(2)	Dis	cuss
		adrenals]	hyper	plasi
M.Ch. DEG	REE EXAMINATION.		(a)	D
(High	er Specialities)		(a)	En
(Revis	ed Regulations)		(b)	Dia
Branch V -	- Paediatric Surgery		(c)	Ma
	SCIENCES AS APPLIED TO ATRIC SURGERY		(d)	Tec
Time : Three hours	Maximum : 100 marks		147	
Theory : Two hours and	l Theory : 80 marks	(3)	Dis	russ
forty minutes		with sev	vere	gas
M.C.Q. : Twenty minut	es M.C.Q. : 20 marks	following	:	
Answe	r ALL questions.		(a)	Pat
I. Essay questions :		sphincter		
	ce Occupying Lesion (SOL) in the		(Ь)	Cos
liver in the Paediatric s	ige group under the following :	presentat	ion	
(a) Surgie	al anatomy of liver	and a first second s		
(b) Causes	s of SOL in the liver		(c)	Inv
(c) Diagno	ais and investigations			

(d) Treatment options and surgical techniques. (3 + 3 + 4 + 10)

(2) Discuss the management of congenital drenals hyperplasia (CAH) under the following :

- (a) Enzyme pathway in CAH
- (b) Diagnosis and investigations
- (c) Management in the newborn period
- (d) Techniques of surgical repair. (15)

(3) Discuss the management of 2 year old child with severe gastroesophageal reflux under the following :

(a) Pathophysiology of lower esophageal incter

(b) Consequences of reflux and clinical sentation

(c) Investigations

(d) Principles of surgical management and role of laproscopy. (15) 2 [KP 048]

AUGUST - 2006

- II. Write briefly on : $(6 \times 5 = 30)$
 - (a) Augmentation cystoplasty
 - (b) Tethered cord syndrome
 - (c) Tumor markers
 - (d) Causes and management of hyponatremia

- (e) Principles of pulse orimetry
- (f) Post obstructive diuresis.

FEBRUARY - 2007

[KQ 048]

Sub. Code: 1701

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch V --- Paediatric Surgery

Paper I — BASIC SCIENCES APPLIED TO 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 congenital hydrocephalus under the following : (20)

- (a) Cerebrospinal fluid pathway
- (b) Anatomy of ventricles
- (c) Etiology of hydrocephalus
- (d) Diagnosis and Investigations
- (e) Treatment.

2. Discuss the management of acute intestinal obstruction in children. (15)

- (a) Causes of intestinal obstruction
- (b) Clinical presentation
- (c) Metabolic disturbances
- (d) Management.

 Discuss the management of 2 year old male child with unilateral undescended testis under the following : (15)

- (a) Normal testicular descent
- (b) Theories of undescended testis
- (c) Complications of undescended testis
- (d) Management.
- II. Write short notes on : $(6 \times 5 = 30)$

2

- 1. Congenital anomalies of thyroid.
- 2. Renal scintigraphy.
- 3. Craniophagus.
- 4. Spina bifida occulta.
- 5. Horshoe kidney.
- 6. Nesideoblastoma.

[KQ 048]

	A	ugust-2007				
[KR 048]	Sub. Code : 1701	(2) A 9 years old child is admitted with pheochromocytoma and hypertension. Discuss under the following :				
M.Ch. DEGREE	EXAMINATION.	(a) Biochemical and anatomical				
(Higher S	pecialities)	localization studies.				
(8	F	(b) Peri-operative medical management.				
(Revised R	legulations)	(c) Surgical approach.				
		(d) Role of chemotherapy. $(3 + 4 + 4 + 4 = 15)$				
Branch V — Paediatric Surgery Paper I — BASIC SCIENCES APPLIED TO		(3) Describe foetal circulation and its transition in the postnatal life. Write briefly on persistant foetal circulation. (15)				
PAEDIATRI	C SURGERY	II. Write briefly on : $(6 \times 5 = 30)$				
Time : Three hours	Maximum : 100 marks	(a) Cardiopulmonary effects during laparoscopic fundoplication in a 1 year old child.				
Theory : Two hours and	Theory: 80 marks					
forty minutes		(b) Role of capnography.				
M.C.Q. : Twenty minutes	M.C.Q.: 20 marks	(c) Complications of central line placement and its management.				
Answer AL	L questions.	(d) Ventilator induced lung injury.				
I. Essay questions :		(e) Care of preterm baby in peri-operative period.				
(1) Describe the clo	tting mechanism. What are	(f) Investigative modalities useful in				

neuroblastoma.

Describe the clotting mechanism. What are (1) the common bleeding disorders encounterd in paediatric (20) practice?

2

[KR 048]

August 2008

Sub. Code: 1701

M.Ch. DEGREE EXAMINATION

(Higher Specialities) (Revised Regulations)

Branch V – Paediatric Surgery

Paper I – BASIC SCIENCES APPLIED TO PAEDIATRIC

SURGERY

Q.P. Code: 181701

Time: Three hours

ANSWER ALL QUESTIONS

Draw suitable diagrams wherever necessary.

I. Essays:

- 1. Acid base and electrohyte disturbances in upper gastro intestinal tract obstructions and management.
- 2. Anatomy and physiology of faccal continance and assessment of continence in post-operative anorectal malformations.

II. Write short notes on:

- 1. Congenital mesocolic hernia.
- 2. Testicular descent.
- 3. Post-operative analgesia in neonate.
- 4. Chylous ascitis.
- 5. High frequency ventilation.
- 6. Anatomy and development of diaphragm.
- 7. Ureterocele.
- 8. Ventilatory support in neonatal diaphragmatic hernia.
- 9. Aetiopathology of necrotizing enterocolits in neonate.
- 10. Ulterus didelphis

atno intestinol

Maximum: 100 Marks

$(10 \times 6 = 60)$

 $(2 \ge 20) = 40$

[KT 048]

August 2009

[KV 048]

Sub. Code: 1701

MASTER OF CHIRUGIAE (M.Ch.) DEGREE EXAMINATIONS

(Higher Specialities)

Branch V – Paediatric Surgery

(Revised Regulations)

Paper I – BASIC SCIENCES APPLIED TO PAEDIATRIC SURGERY Q.P. Code: 181701

Time: Three hours

Maximum: 100 Marks

Answer ALL questions Draw suitable diagrams wherever necessary.

I. Essays:

- 1. Describe the normal development of abdominal wall and discuss the etiopathogenesis, clinical features, associated malformations and management of exomphalos major and exomphalos minor.
- 2. Describe the normal embryology of diaphragm and discuss about congenital diaphragmatic hernia, under the following headings:a) Etiopathogenesis b) Clinical features c) Investigations d) Treatment.

II. Write short notes on:

- 1. Spina bifida cystica.
- 2. Congenital lobar emphysema.
- 3. Mesoblastic nephroma.
- 4. Mixed gonadal dysgenesis.
- 5. Meckel's diverticulum.
- 6. Thermoregulation in new born children.
- 7. Principles of conservative management of liver trauma.
- 8. Neonatal host defense mechanism.
- 9. Central venous access.
- 10. Malignant hyperthermia

$(10 \times 6 = 60)$

 $(2 \times 20 = 40)$

February 2011

[KY 048]

Sub. Code: 1701

MASTER OF CHIRUGIAE (M.Ch.) DEGREE EXAMINATIONS

(Super Specialities)

Branch V – Paediatric Surgery

(Revised Regulations)

Common to all Candidates

Paper I – BASIC SCIENCES APPLIED TO PAEDIATRIC SURGERY Q.P. Code: 181701

Time: Three hours

Maximum: 100 Marks

Answer ALL questions Draw suitable diagrams wherever necessary.

I. Essays:

- 1. Describe the development of Lung. Discuss the Etiopathogenesis, Diagnosis and Management of Malformations of Lung.
- 2. Describe the Histo-chemical basis of Laterality and Clinical implications of Heterotaxy. Discuss the management of Blunt Trauma in a child with Situs Inversus Abdominis.

II. Write short notes on:

- 1. Dyselectrolytemia of Pyloric Obstruction.
- 2. Wandering Spleen.
- 3. Neonatal Appendicitis.
- 4. Shah-Waardenburg Syndrome.
- 5. Neurenteric Cyst.
- 6. Spontaneous Regression.
- 7. Surgery in a Child with Trisomy-21.
- 8. Small Round Cell Tumours.
- 9. Potter's Sequence.
- 10. Yolk Sac Tumour.

$(10 \times 6 = 60)$

 $(2 \ge 20 = 40)$

August 2011

[KZ 048]

Sub. Code: 1701

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

BRANCH V – PAEDIATRIC SURGERY

BASIC SCIENCES APPLIED TO PAEDIATRIC SURGERY

Q.P. Code: 181701

Time : 3 hours Maximum : 100 marks (180 Min) Answer ALL questions in the same order. I. Elaborate on : **Pages Time Marks** (Max.) (Max.) (Max.) 1. Describe pathological anatomy, Embryology symptoms and signs and management of gastric duplication. 11 35 15 2. Describe Embryology, pathological anatomy symptoms and signs, and management of proximal jejunal atresia. 11 35 15 **II.** Write notes on : 1. Embryology of cloacal exstrophy. 4 10 7 2. Atrial natriuretic peptide. 4 10 7 3. Chylous Ascitis. 4 10 7 10 7 4. Urethral duplication. 4 5. Body water composition in prenatal, postnatal and infancy. 10 7 4 6. Liquid ventilation. 4 10 7 7. Neuroblastoma - factors affecting prognosis. 4 10 7 8. Congenital Oesophageal stenosis. 10 7 4 9. Embryology of Testicular descent. 4 10 7

4

10

7

10. Achalasia (Oesophageal)

[LB 048]

48] AUGUST 2012 Sub. Code: 1701 M.Ch – PAEDIATRIC SURGERY Paper – I BASIC SCIENCES APPLIED TO PAEDIATRIC SURGERY Q.P. Code: 181701

Time	- 3 hours (180 Min)	Maxin	num : 10	0 marks
	Answer ALL questions in the same or	ler.		
I. Ela	borate on :	Pages	Time (Max.)	Marks (Max.)
1.	Discuss Meconium Ileus under the following headings i) ii) Pathogenesis iii) Clinical features iv) Diagnosis v) No	n		
	operative management.	16	35	15
2.	Discuss Intestinal trans plantation under the following he i) Indications for Transplantation ii) Operative procedure iii) Post operative management.	-	35	15
II. WI	rite notes on :			
	What is the role of gene therapy in alpha -1-antitrypsin deficiency?	4	10	7
2.	Write a short note on video endoscopic foetal surgery.	4	10	7
3.	Write a short note on skin maturation and trans epithelial loss in a pretum neonate?	water 4	10	7
4.	What is the cytokines responses to injury in an infant.	4	10	7
5.	Write a short note on capnometry.	4	10	7
6.	Write a short note on high frequency ventilation.	4	10	7
7.	Write a short note on the complications of extra corporea membrane oxygenation?	ıl 4	10	7
8.	Write a short note on cardiac catheterization usefulness?	4	10	7
9.	Write a short note on nitric oxide?	4	10	7
10	. How will you treat Systemic Inflammatory Response Syndrome?	4	10	7

M.Ch. – PAEDIATRIC SURGERY Paper – I BASIC SCIENCES APPLIED TO PAEDIATRIC SURGERY *Q.P.Code: 181701*

Time: Three Hours

I. Elaborate on:

- 1. The pathophysiology, diagnosis, investigations and management of Necrotising Enterocolitis.
- 2. The pathophysiology, clinical manifestations, diagnosis and treatment of Gastroesophageal Reflux.

II. Write notes on:

- 1. Nitric oxide.
- 2. Pathological anatomy of Pelvi Ureteric Junction obstruction.
- 3. Paradoxical aciduria in Pyloric stenosis.
- 4. Alpha feto protein.
- 5. Lipomeningomyelocele.
- 6. Empyema.
- 7. Rhabdomyosarcoma.
- 8. Testicular torsion.
- 9. Congenital Adrenal Hyperplasia.
- 10. Hemangioma.

(LD 048)

Maximum: 100 marks

(2X15=30)

(**10X7=70**)

monore