

APRIL - 2001

[KD 052]

Sub. Code : 175

M.Ch. DEGREE EXAMINATION

(Higher Specialities)

Branch VI — Surgical Gastroenterology and Proctology

(Revised Regulations)

Paper I — BASIC SCIENCES AS APPLIED TO  
GASTROENTEROLOGY

(APPLIED ANATOMY, APPLIED PHYSIOLOGY,  
MICROBIOLOGY AND CLINICAL PHARMACOLOGY)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss the immuno-histochemical diagnosis and treatment of various gastro-intestinal cancers. (30)
2. Discuss in detail the current concepts in the haemostatic mechanisms following injury and add a note on the pathogenesis of DIC. (30)
3. Write notes on : (4 × 10 = 40)
  - (a) Glutamine
  - (b) CPAP ventilation
  - (c) Superior mesenteric artery syndrome
  - (d) Blood supply of extra hepatic biliary ductal system and its importance.

**NOVEMBER - 2001**

**[KE 052]**

**Sub. Code : 1751**

**M.Ch. DEGREE EXAMINATION**

**(Higher Specialities)**

**(Revised Regulations)**

**Branch IV — Surgical Gastroenterology and Proctology**

**Paper I — BASIC SCIENCES AS APPLIED TO  
GASTROENTEROLOGY**

**(Applied Anatomy, Applied Physiology, Microbiology  
and Clinical Pharmacology)**

**Time : Three hours**

**Maximum : 100 marks**

**Answer ALL questions**

1. Discuss the aetiology and pathophysiology of hepato renal syndrome. (30)
  2. Discuss in detail the etiopathogenesis of acute erosive gastritis. (30)
  3. Write notes on : (4 × 10 = 40)
    - (a) Somatostatin
    - (b) PEEP in ARDS
    - (c) Chimerism
    - (d) Functional anatomy of liver
-

**MARCH - 2002**

**[KG 052]**

**Sub. Code : 1751**

**M.Ch. DEGREE EXAMINATION.**

**(Higher Specialities)**

**(Revised Regulations)**

**Branch VI — Surgical Gastroenterology and proctology  
as Applied to Gastroenterology**

**Paper I — BASIC SCIENCES AS APPLIED TO  
GASTROENTROLOGY**

**(Applied Anatomy, Applied Physiology, Microbiology  
and Clinical Pharmacology)**

**Time : Three hours**

**Maximum : 100 marks**

**Answer ALL questions.**

1. Discuss the surgical anatomy and anatomic surgery of liver. (30)
2. Discuss genetics and cancer with special reference to gastrointestinal and hepato-biliary pancreatic cancers. (30)
3. Write notes on : (4 × 10 = 40)
  - (a) Isotope scanning in gastrointestinal bleeding.
  - (b) Bilirubin metabolism.
  - (c) Antibiotics in acute pancreatitis.
  - (d) MODS.

APRIL - 2004

[KK 052]

Sub. Code : 1751

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch VI — Surgical gastroenterology and Proctology

Paper I — BASIC SCIENCES AS APPLIED TO  
GASTROENTEROLOGY

(APPLIED ANATOMY, APPLIED PHYSIOLOGY,  
MICROBIOLOGY AND CLINICAL PHARMACOLOGY)

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) Discuss the surgical Anatomy of the Pancreatico-biliary ductal junction and its significance to various Pancreatico-biliary disorders.

(2) Describe the lymphatic drainage of stomach and its relevance to the surgical treatment of gastric cancer.

B. Write short notes on :

(10 × 5 = 50)

- (1) Imaging in oesophageal malignancy.
- (2) Autoimmune pancreatitis.
- (3) Neutropenic colitis.
- (4) Cytokines in GI disorders.
- (5) Genetic basis of carcinoma of the gall bladder.
- (6) Hepato pulmonary syndrome.
- (7) Epidermal growth factor.
- (8) Hepatic functional reserve.
- (9) MRSA.
- (10) Paralytic ileus.

**AUGUST - 2004**

**[KL 052]**

**Sub. Code : 1751**

**M.Ch. DEGREE EXAMINATION.**

**(Higher Specialities)**

**(Revised Regulations)**

**Branch VI — Surgical Gastroenterology and Proctology**

**Paper I — BASIC SCIENCES AS APPLIED TO  
GASTROENTEROLOGY**

**(APPLIED ANATOMY, APPLIED PHYSIOLOGY,  
MICROBIOLOGY AND CLINICAL PHARMACOLOGY)**

**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 pathophysiology of Biliary Tract Pain.**

**(2) Give the Embryologic and anatomic basis of oesophageal surgery.**

**II. Short note on : (10 × 5 = 50)**

**(a) Anatomic, embryologic and surgical aspects of Ampulla of Vater.**

**(b) Pre-duodenal portal vein.**

**(c) Hepatic Adenoma.**

**(d) Rouviere's sulcus.**

**(e) Infiximab.**

**(f) Anomalous Pancreatico-biliary duct union.**

**(g) Nerve supply of the pancreas.**

**(h) Adenoma – carcinoma sequence.**

**(i) Aorto-Enteric Fistula**

**(j) Transversalis fascia.**

FEBRUARY - 2005

[KM 052]

Sub. Code : 1751

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch VI — Surgical Gastroenterology and Proctology

Paper I — BASIC SCIENCES AS APPLIED TO  
GASTROENTEROLOGY

(APPLIED ANATOMY, APPLIED PHYSIOLOGY,  
MICROBIOLOGY AND CLINICAL PHARMACOLOGY)

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) Describe the surgical anatomy of the oesophagus with special reference to cancer.

(2) Discuss the pathological aspects in Cirrhosis and portal hypertension.

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

- (a) Radiology of the esophagus.
- (b) Role of C.T. scan in liver tumours
- (c) Video endoscopes and indications for upper G.I. Endoscopy.
- (d) Percutaneous endoscopic gastrostomy
- (e) Endoscopic ultra sound.
- (f) Functional Anatomy of the liver as described by Couinaud.
- (g) Bile duct blood supply.
- (h) ERCP.
- (i) TIPS (Transjugular Intrahepatic Portacaval Shunting)
- (j) Physiology of stomach and duodenum.

**AUGUST - 2006**

**[KP 052]**

**Sub. Code : 1751**

**M.Ch. DEGREE EXAMINATION.**

**(Higher Specialities)**

**(Revised Regulations)**

**Branch VI — Surgical Gastroenterology and Proctology**

**Paper I — BASIC SCIENCES AS APPLIED TO  
GASTROENTEROLOGY**

**(APPLIED ANATOMY, APPLIED PHYSIOLOGY,  
MICROBIOLOGY AND CLINICAL PHARMACOLOGY)**

**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 the pathogenesis and management  
of Ascites with specific reference to hepatic dysfunction. (20)**

**(2) Critically evaluate the role of different  
pancreatic function tests. (15)**

**(3) Discuss the anatomy of rectum in relation to  
surgical procedures for various ano-rectal disease. (15)**

**II. Write Short notes on :**

**(6 × 5 = 30)**

**(a) Urea breath test.**

**(b) Tumor necrosis factor.**

**(c) Inflammatory pseudotumor.**

**(d) MALT lymphoma.**

**(e) GI manifestations of AIDS.**

**(f) Pancreatico-biliary ductal junction.**

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FEBRUARY - 2007

[KQ 052]

Sub. Code : 1751

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch VI — Surgical Gastroenterology and Proctology

Paper I — BASIC SCIENCES AS APPLIED TO  
GASTROENTEROLOGY (APPLIED ANATOMY,  
APPLIED PHYSIOLOGY, MICROBIOLOGY AND  
CLINICAL PHARMACOLOGY)

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 questions :

(1) Discuss the anatomical and physiological aspect of anti-reflux mechanism. (20)

(2) Discuss the pathophysiology of pain in chronic pancreatitis. (15)

(3) Total Mesorectal Excision (TME). (15)

II. Write short notes on :

(6 × 5 = 30)

- (1) Thromboelastography
  - (2) Chromoendoscopy
  - (3) CA 19-9
  - (4) Glutamine
  - (5) Abdominal compartment syndrome
  - (6) Liver preservation solution.
-

[KR 052]

Sub. Code : 1751

M.Ch. DEGREE EXAMINATION.

(Higher Specialties)

(Revised Regulations)

Branch VI — Surgical Gastroenterology and Proctology

Paper I — BASIC SCIENCES AS APPLIED TO  
GASTROENTEROLOGY (APPLIED ANATOMY,  
APPLIED PHYSIOLOGY, MICROBIOLOGY AND  
CLINICAL PHARMACOLOGY)

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 the extrinsic and intrinsic innervation of the rectum and anal canal and its implications in health and in sphincter preserving surgery. (20)

(2) Discuss the lymphatic drainage of stomach and its relevance in the surgical treatment of gastric cancer. (15)

(3) Discuss the physiology of mesenteric circulation. How will you manage mesenteric vein thrombosis? (15)

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

- (a) Adenoma-carcinoma sequence
- (b) Eosinophilic esophagogastritis
- (c) Groove pancreatitis
- (d) MRSA
- (e) Fungal infections in pancreatic necrosis
- (f) Type IV A Choledochal cyst.

August 2008

[KT 052]

Sub. Code: 1751

**M.CH DEGREE EXAMINATIONS**

**(Higher Specialities)  
(Revised Regulations)**

**Branch VI – SURGICAL GASTROENTEROLOGY AND  
PROCTOLOGY**

**Paper I – BASIC SCIENCES AS APPLIED TO  
GASTROENTEROLOGY  
(APPLIED ANATOMY, APPLIED PHYSIOLOGY,  
MICROBIOLOGY AND CLINICAL PHARMACOLOGY)**

*Q.P. Code: 181751*

**Time: Three hours**

**Maximum: 100 Marks**

**ANSWER ALL QUESTIONS**

**Draw suitable diagrams wherever necessary.**

**I. Essays: (2 x 20 = 40)**

1. Discuss the pathophysiology of Biliary obstruction.
2. Discuss the nutritional assessment of surgical patients and principles and advantages of enteral nutrition.

**II. Write short notes on: (10 x 6 = 60)**

1. Optical Coherence tomography.
  2. ESBL.
  3. Anatomy of GE junction.
  4. Balthazar grading in Acute pancreatitis.
  5. Positive end expiratory pressure.
  6. Confidence intervals.
  7. Staging of hilar cholangiocarcinoma.
  8. Liver cell adenoma.
  9. Pouchitis.
  10. Solitary rectal ulcer.
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**August 2009**

[KV 052]

**Sub. Code: 1751**

**M.Ch. DEGREE EXAMINATIONS**

**(Higher Specialities)**

**(Revised Regulations)**

**Branch VI – Surgical Gastroenterology and Proctology**  
**Paper I – BASIC SCIENCES AS APPLIED TO GASTROENTEROLOGY**  
**(APPLIED ANATOMY, APPLIED PHYSIOLOGY, MICROBIOLOGY**  
**AND CLINICAL PHARMACOLOGY)**

*Q.P. Code: 181751*

**Time: Three hours**

**Maximum: 100 Marks**

**ANSWER ALL QUESTIONS**

**Draw suitable diagrams wherever necessary.**

**I. Essays:**

**2 x 20 = 40 Marks**

1. Discuss the etiopathogenesis of septic shock.
2. Discuss the surgical anatomy of liver with specific reference to lobar and segmental resections.

**II. Write short notes on:**

**10 X 6 = 60 Marks**

1. Chromoendoscopy.
2. Ca 19-9.
3. Liver preservation solutions.
4. HNPCC.
5. Anorectal manometry.
6. Classification of choledochal cysts.
7. Inflammatory pseudotumours.
8. Gut induced sepsis.
9. 'Goal directed therapy' in abdominal sepsis.
10. Capecitabine.

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**February 2010**

**[KW 052]**

**Sub. Code: 1751**

**M.Ch. DEGREE EXAMINATIONS**

**(Super Specialities)  
(Revised Regulations)**

**Branch VI – Surgical Gastroenterology and Proctology  
(Common to all candidates)**

**Paper I – BASIC SCIENCES AS APPLIED TO GASTROENTEROLOGY  
(APPLIED ANATOMY, APPLIED PHYSIOLOGY, MICROBIOLOGY  
AND CLINICAL PHARMACOLOGY)**

*Q.P. Code: 181751*

**Time: Three hours**

**Maximum: 100 Marks**

**ANSWER ALL QUESTIONS**

**Draw suitable diagrams wherever necessary.**

**I. Essays:**

**2 x 20 = 40 Marks**

1. Discuss in detail the anatomy of anal sphincter. Add a note on the various surgical procedures for anal incontinence.
2. Discuss the pathophysiology of severe acute pancreatitis with necrosis in the first three weeks.

**II. Write short notes on:**

**10 X 6 = 60 Marks**

1. Octreotide in pancreatic anastomosis.
2. Acinetobacter.
3. CT index in acute pancreatitis.
4. MELD score.
5. D-2 gastric resection.
6. Microsatellite instability.
7. Staging of rectal cancer.
8. Endo ultrasound in the evaluation of oesophageal cancer.
9. Pathology in autoimmune pancreatitis.
10. Thromboprophylaxis in GI surgery.

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August 2011

[KZ 052]

Sub. Code: 1751

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

BRANCH VI – SURGICAL GASTROENTEROLOGY AND PROCTOLOGY

BASIC SCIENCES AS APPLIED TO GASTROENTEROLOGY  
(APPLIED ANATOMY, APPLIED PHYSIOLOGY, MICROBIOLOGY  
AND CLINICAL PHARMACOLOGY)

*Q.P. Code: 181751*

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. Describe the Lymphatic drainage of stomach.<br>Describe the different types of Gastric resections. | 11 | 35 | 15 |
| 2. Describe the cystic lesions of Liver and their<br>management.                                      | 11 | 35 | 15 |

**II. Write notes on :**

- |                                    |   |    |   |
|------------------------------------|---|----|---|
| 1. Pancreas Divisum.               | 4 | 10 | 7 |
| 2. Familial polyposis coli.        | 4 | 10 | 7 |
| 3. Total mesorectal excision.      | 4 | 10 | 7 |
| 4. Carcinoma Gall bladder.         | 4 | 10 | 7 |
| 5. Crohn's Disease.                | 4 | 10 | 7 |
| 6. Solitary Rectal ulcer syndrome. | 4 | 10 | 7 |
| 7. Early gastric cancer.           | 4 | 10 | 7 |
| 8. Anatomy of caudate lobe.        | 4 | 10 | 7 |
| 9. APACHE score.                   | 4 | 10 | 7 |
| 10. Irritable Bowel Syndrome.      | 4 | 10 | 7 |

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[LB 052]

AUGUST 2012

Sub. Code: 1751

M.Ch -SURGICAL GASTROENTEROLOGY AND PROCTOLOGY

Paper – I BASIC SCIENCES

Q.P. Code: 181751

Time : 3 hours  
(180 Min)

Maximum : 100 marks

Answer ALL questions in the same order.

**I. Elaborate on :**

	<b>Pages (Max.)</b>	<b>Time (Max.)</b>	<b>Marks (Max.)</b>
1. Describe the Surgical anatomy of Pancreas and Classify the injury to Duodenum and head of Pancreas.	16	35	15
2. Describe the lymphatic drainage of Stomach. Discuss the evaluation and management of Neoplasm of Cardia.	16	35	15

**II. Write notes on :**

1. Write Short note on Juvenile polyposis syndrome.	4	10	7
2. Define and discuss the treatment of Recto-vestibular Fistula.	4	10	7
3. Discuss the Uses of Imatinib mesylate (Gleevec).	4	10	7
4. Describe the Pathological aspects of Inflammatory Bowel Disease.	4	10	7
5. Role of Interventional radiology in G.I. bleed.	4	10	7
6. Evaluation of suspected TB abdomen.	4	10	7
7. Timing of Intervention in Oesophageal Perforation.	4	10	7
8. Post Cholecystectomy Biliary Fistula.	4	10	7
9. Define Hypersplenism and its Clinical implications.	4	10	7
10. Evaluation of Heamosuccus Pancreaticus.	4	10	7

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**(LD 052)**

**AUGUST 2013**

**Sub. Code:1751**

**M.Ch. – SURGICAL GASTROENTEROLOGY AND PROCTOLOGY**  
**Paper – I BASIC SCIENCES AS APPLIED TO GASTROENTEROLOGY**  
*Q.P.Code: 181751*

**Time: Three Hours**

**Maximum: 100 marks**

**I. Elaborate on:**

**(2X15=30)**

1. Discuss the complications of Crohns' disease and management modalities.
2. Abnormal Pancreatobiliary ductal junction – Discuss the embryology, various theories, sequelae and evaluation strategies.

**II. Write notes on:**

**(10X7=70)**

1. POEM – Peroral Endoscopic Myotomy – Indications, technique and outcome.
2. Subcarinal Oesophageal Leiomyoma – Presentation, evaluation and management.
3. Gastric hormones – Discuss the types and influence in the gastric physiology.
4. Anatomy of the Enteric nervous system.
5. Roux syndrome – Presentation and management.
6. Surgery for Constipation – Indications and types of surgery.
7. Colonic Aganglionosis – Embryology and Pathophysiology.
8. Management of delayed gastric emptying.
9. Anal Melanoma – Staging and Management.
10. Solitary Rectal Ulcer Syndrome – Evaluation and Management.

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**(LE 052)**

**FEBRUARY 2014**

**Sub. Code:1751**

**M.Ch. – SURGICAL GASTROENTEROLOGY AND PROCTOLOGY  
Paper – I BASIC SCIENCES AS APPLIED TO GASTROENTEROLOGY**

*Q.P.Code: 181751*

**Time: Three Hours**

**Maximum: 100 marks**

**I. Elaborate on:**

**(2X15=30)**

1. Abdominal Compartment Syndrome – Etiology, presentation and management.
2. Post Gastrectomy Syndromes – Etiology, evaluation and management.

**II. Write Notes on:**

**(10X7=70)**

1. Outline the various procedures for Zenker's diverticulum.
2. The role of Helicobacter pylori in gastric carcinogenesis.
3. Classify gastroesophageal varices. Discuss the management of isolated fundal varices.
4. Post operative gastric stasis – Management options.
5. Long term complications of bariatric surgery – Presentation, evaluation and management methods.
6. E-cadherin – Enumerate it's role in gastric cancer.
7. Pancreatic pseudoaneurysms –Interventional and surgical management.
8. Intrahepatic Cholangiocarcinoma – Treatment options.
9. Complications of Hepatic hydatidosis.
10. Pancreatic Ascites – The etiology and it's management.

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[LH 052]

AUGUST 2015

Sub. Code: 1751

**M.Ch. – SURGICAL GASTROENTEROLOGY AND PROCTOLOGY  
PAPER I – BASIC SCIENCES AS APPLIED TO GASTROENTEROLOGY**

*Q.P.Code: 181751*

**Time : Three Hours**

**Maximum : 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Discuss the pathophysiology of biliary obstruction and its consequences
2. Describe the Surgical anatomy of the Anorectum and discuss the Management modalities of complex fistula in ano.

**II. Write notes on :**

**(10 x 7 = 70)**

1. Activated protein C.
2. Gut – Second Brain.
3. Metachronous colorectal cancer.
4. Posterior mediastinal cysts.
5. Bowel lengthening procedures.
6. Nonocclusive mesenteric ischemia.
7. Recognition and management of abdominal compartment syndrome.
8. Octreotide – uses and problems.
9. Contraindications for Colonoscopy.
10. Capsule endoscopy – benefits and limitations.

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(LJ 052)

AUGUST 2016

Sub. Code:1751

**M.Ch. – SURGICAL GASTROENTEROLOGY AND PROCTOLOGY**  
**Paper I – BASIC SCIENCES AS APPLIED TO GASTROENTEROLOGY**

*Q.P.Code: 181751*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Discuss the nutritional assessment of surgical patients and principles and advantages of enteral nutrition.
2. Discuss the pathophysiology of normal Gastroduodenal motility and gastroparesis and in detail about management of gastroparesis.

**II. Write notes on:**

**(10 x 7 = 70)**

1. ECMO (Extra corporeal membrane oxygenation).
2. Nesidioblastosis.
3. Neutropenic colitis.
4. Immuno nutrition.
5. Cytokines in GI disorders.
6. MRSA.
7. Gut induced sepsis.
8. PEEP (Positive End Expiratory Pressure).
9. Chimerism.
10. Pathophysiology of pain in Chronic pancreatitis.

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(LL 052)

AUGUST 2017

Sub. Code:1751

**M.Ch. – SURGICAL GASTROENTEROLOGY AND PROCTOLOGY**  
**Paper I – BASIC SCIENCES AS APPLIED TO GASTROENTEROLOGY**

*Q.P.Code: 181751*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Discuss the Pathophysiology of biliary obstruction and its consequences.
2. Discuss the various common biliovascular anomalies and their clinical significance.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Uncut “Roux” loop.
2. Malrotation of gut.
3. Pathophysiology of pain in chronic pancreatitis.
4. Management of Recurrent Acute Pancreatitis in a teenager.
5. Ileosigmoid knotting.
6. Physiological basis of Ileal pouch.
7. Diagnosis and Management of Gastric volvulus.
8. CT and MRI findings in
  - (a) Hepatocellular carcinoma.
  - (b) Hemangioma, liver.
  - (c) Focal nodular hyperplasia.
9. Cholecystostomy.
10. Probiotics in G.I. Surgery.

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(LN 052)

AUGUST 2018

Sub. Code: 1751

**M.Ch. – SURGICAL GASTROENTEROLOGY AND PROCTOLOGY**  
**Paper I – BASIC SCIENCES AS APPLIED TO GASTROENTEROLOGY**

*Q.P.Code: 181751*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Discuss in detail the surgical anatomy of liver? Describe the Couinad's segment in relation to various types of hepatectomies and segmental resection?
2. Surgical anatomy of pancreas and various pancreatic resection techniques.

**II. Write notes on:**

**(10 x 7 = 70)**

1. CA 19-9.
2. Liver preservation solutions.
3. Role of endoscopic ultrasonogram in GI surgery.
4. FOLFOX regime.
5. Sepsis.
6. Pre operative biliary drainage.
7. Discuss the different types of gall stones.
8. Bilirubin metabolism.
9. Tumour necrosis factor.
10. Acinetobacter.

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(LP 052)

AUGUST 2019

Sub. Code: 1751

**M.Ch. – SURGICAL GASTROENTEROLOGY**

**Paper I – BASIC SCIENCES AS APPLIED TO GASTROENTEROLOGY**

*Q.P. Code: 181751*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Vascular Anatomy of Colon. Discuss the management of colonic ischaemia.
2. What is the normal requirement of fluid and electrolytes in an adult? What is the metabolic sequelae of gastric outlet obstruction? How will you correct it? Explain.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Pathogenesis of Hepatoma in Hepatitis B virus infection.
2. Infection control in surgical ICU.
3. Diagnosis on management of acute rejection following Liver Transplant.
4. Auto immune Pancreatitis.
5. Show transit constipation.
6. Etiopathogenesis of Crohn's disease.
7. Lymphoma stomach.
8. Ischaemic hepatitis.
9. Kras mutation.
10. Acute appendicitis in pregnancy

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**(LR 052)**

NOVEMBER 2020  
(AUGUST 2020 SESSION)

**Sub. Code: 1751**

**M.Ch. – SURGICAL GASTROENTEROLOGY**

**Paper I – BASIC SCIENCES AS APPLIED TO GASTROENTEROLOGY**

*Q.P. Code: 181751*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Solid benign neoplasms of liver.
2. Physiology of deglutition and motility disorders of oesophagus.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Physiology of anal continence
2. Biliary sepsis
3. Primary CBD stones
4. Hereditary pancreatitis
5. Helicobacter pylori
6. Melanoma rectum
7. Pathogenesis of pain in chronic pancreatitis
8. Barrett oesophagus
9. Circumferential resection margin-CRM
10. Hereditary polyposis syndromes

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(MCH 0821)

AUGUST 2021

Sub. Code: 1751

**M.Ch. – SURGICAL GASTROENTEROLOGY**

**Paper I – BASIC SCIENCES AS APPLIED TO GASTROENTEROLOGY**

*Q.P. Code: 181751*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Gastrointestinal neuroendocrine tumours.
2. Nonspecific inflammatory bowel disease.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Rectal GIST.
2. Achalasia cardia.
3. Pancreas Divisum.
4. Delayed gastric emptying.
5. Duodenal diverticulum .
6. Sump syndrome.
7. Biliary anomalies.
8. Mesorectum.
9. Portal vein embolization.
10. Ogilvie syndrome.

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

**(MCH 0822)**

**AUGUST 2022**

**Sub. Code: 1751**

**M.Ch. – SURGICAL GASTROENTEROLOGY**

**Paper I – BASIC SCIENCES AS APPLIED TO GASTROENTEROLOGY**

***Q.P. Code: 181751***

**Time: Three Hours**

**Maximum: 100 Marks**

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

1. Describe the factors affecting Liver blood flow and methods of measurement of liver blood flow and perfusion.
2. Discuss the innervation of rectum and anal canal and its implication in sphincter preserving surgery.

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

1. Methicillin resistant Staphylococcus aureus (MRSA) management.
2. Ciliated Hepatic Foregut cyst.
3. Arterio portal fistula.
4. Progressive familial Intrahepatic Cholestasis.
5. Para Biliary venous system of Couinaud.
6. Hemosuccus pancreaticus.
7. Anterior Cutaneous Nerve Entrapment Syndrome (ACNES).
8. Hilar plate system and its surgical importance.
9. Diagnostic criteria for Pancreatico biliary maljunction.
10. Chicago classification of Esophageal motility disorder.

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

**(MCH 0124)**

**JANUARY 2024**

**Sub. Code: 1751**

**M.Ch. – SURGICAL GASTROENTEROLOGY**

**PAPER I – BASIC SCIENCES AS APPLIED TO GASTROENTEROLOGY  
(APPLIED ANATOMY, APPLIED PHYSIOLOGY, MICORBIOLOGY  
AND CLINICAL PHARMACOLOGY)**

*Q.P. Code: 181751*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Principles of oncological surgery in Carcinoma colon.
2. Living Donor Liver Transplantation.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Complications of ileostomy.
2. Diaphragmatic Hernia.
3. pH evaluation of oesophagus.
4. Eosinophilic esophagitis.
5. Faecal incontinence.
6. Post gastrectomy syndrome.
7. Microsatellite instability.
8. Enteral nutrition.
9. MODS Management.
10. Perioperative antibiotic prophylaxis.

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

**(MCH 0225)**

**FEBRUARY 2025**

**Sub. Code: 1751**

**M.Ch. BRACH VI – SURGICAL GASTROENTEROLOGY**

**PAPER I – BASIC SCIENCES AS APPLIED TO GASTROENTEROLOGY  
(APPLIED ANATOMY, APPLIED PHYSIOLOGY, MICORBIOLOGY AND  
CLINICAL PHARMACOLOGY)**

*Q.P. Code: 181751*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. OG junction – surgical anatomy and management of OG junction tumours.
2. Caudate lobe – surgical anatomy and various approaches to caudate lobe resection.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Boerhaave syndrome.
2. Adult Hirschsprung's disease.
3. SRUS.
4. Primary GI lymphomas.
5. Pilonidal sinus.
6. Para-stomal hernia – types and management.
7. Ano-rectal manometry.
8. Occult GI bleed.
9. APC gene.
10. Gut microbiome.

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**THE TAMIL NADU Dr. M.G.R. MEDICAL UNIVERSITY**

**(MCH 0126)**

**JANUARY 2026**

**Sub. Code: 1751**

**M.Ch. – SURGICAL GASTROENTEROLOGY**

**PAPER I – BASIC SCIENCES AS APPLIED TO GASTROENTEROLOGY  
(APPLIED ANATOMY, APPLIED PHYSIOLOGY, MICORBIOLOGY AND  
CLINICAL PHARMACOLOGY)**

*Q.P. Code: 181751*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Discuss in detail about nutritional assessment of patients undergoing Hepatopancreaticobiliary surgery. Write about principles and advances in perioperative Nutrition.
2. Discuss the functional Liver Reserve and discuss about the various strategies for Augmentation of Functional Liver Reserve.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Chromoendoscopy.
2. Goal directed fluid therapy.
3. Gut induced sepsis.
4. Acinetobacter.
5. MELD SCORE.
6. Variations in arterial supply of Colon and its implications.
7. Pancreas divisum.
8. Hemosuccus pancreaticus.
9. Foregut Carcinoid.
10. E-Cadherin.

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