

April-2001

[KD 016]

Sub. Code : 1254

D.M. DEGREE EXAMINATION

(Higher Specialities)

Branch IV — Gastroenterology

(Revised Regulations)

**Paper IV — RECENT ADVANCES IN THE
SPECIALITY**

Time : Three hours

Maximum : 100 marks

Answer ALL questions

1. Discuss the current concepts in management of hepatitis C virus. (25)
2. Discuss the role of nitric oxide in health and disease. (25)
3. Short notes on : (5 × 10 = 50)
 - (a) Immune escape mechanism in viral hepatitis.
 - (b) Endosonography.
 - (c) Feto onchogenes.
 - (d) Rabiprazole.
 - (e) T.T. Virus

[KE 016]

Sub. Code : 1254

D.M. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch IV — Gastroenterology

**Paper IV — RECENT ADVANCES IN THE
SPECIALITY**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss the role of imaging in the differential diagnosis of hepatic mass lesions. (25)
 2. Name the nucleoside analogues used in the management of Hepatitis B. Discuss any one of them in detail. (25)
 3. Write short notes on : (5 × 10 = 50)
 - (a) Treatment of nonalcoholic fatty liver disease.
 - (b) Endoscopic management of GERD. (Do not include laparoscopic management).
 - (c) Indications for liver transplantation.
 - (d) Rationale for the use of exocrine enzyme supplements in the management of chronic pancreatitis.
 - (e) Endoscopic surveillance in Barrett's oesophagus.
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[KG 016]

Sub. Code : 1254

D.M. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch IV — Gastroenterology

**Paper IV — RECENT ADVANCES IN THE
SPECIALITY**

Time : Three hours

—Maximum : 100 marks

Answer ALL questions.

1. Discuss the role of MRI (Magnetic Resonance Imaging) in the diagnosis of diseases of liver and biliary tract. (25)
 2. Discuss the recent developments in the treatment of Hepatitis C infection recurrent Post Liver transplant. (25)
 3. Write short notes on : (5 × 10 = 50)
 - (a) Treatment of vanishing bile duct syndrome
 - (b) Pathogenesis of non alcoholic steatohepatitis
 - (c) TNF (Tumour Necrosis Factor) inhibitors in inflammatory bowel disease
 - (d) Chemoprevention of colon cancer
 - (e) Probiotics.
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September-2002

[KH 016]

Sub. Code : 1254

D.M. DEGREE EXAMINATION

(Higher Specialities)

(Revised Regulations)

Branch IV — Gastroenterology

**Paper IV — RECENT ADVANCES IN THE
SPECIALITY**

Time : Three hours

Maximum ; 100 marks

Answer ALL questions.

1. Discuss the role of Liver transplant in Acute liver disease and post transplant medical management. (25)
 2. Discuss Endoscopic management of chronic pancreatitis. (25)
 3. Write short notes on : (50)
 - (a) Quasi species of HCV
 - (b) M.R. cholangiogram
 - (c) Complication of TIPS
 - (d) Endoscopic management of GERD
 - (e) Esomeprazole.
-

[KK 016]

Sub. Code : 1254

D.M. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch IV — Gastroenterology

Paper IV — RECENT ADVANCES IN THE
SPECIALITY

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 Hepatological — Genetic metabolic diseases in gastro enterology.

(2) Discuss the role of nitric oxide in health and disease.

B. Write short notes on : (10 × 5)

(1) Pss in G.I. Malignancy.

(2) MRI in liver disease.

- (3) Enteral nutrition.
- (4) Zenicer's diverticulam.
- (5) Rectal gas.
- (6) Lasers in gastro enterology.
- (7) Decontamination of endoscopes.
- (8) Treatment of variceal bleeding.
- (9) Esomeprazole.
- (10) Esophageal perforation.

[KL 016]

Sub. Code : 1254

D.M. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch IV — Gastroenterology

Paper IV — RECENT ADVANCES IN THE
SPECIALITY

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 : (2 × 15 = 30)

(1) What is the current status of diagnosis and management of ulcerative colitis of the guidelines for their followup?

(2) Give a critical review on "what are probiotics", their effect on gut physiology and their role in prevention and treatment of various gastrointestinal disorders.

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

- (a) Shock liver
- (b) M.R. Colonography
- (c) Rome II criteria for diagnosis of I.B.S.
- (d) Non occlusive mesentric Ischemia
- (e) Video pancreatoscopy
- (f) Capsule enteroscopy
- (g) Etanercept
- (h) Treatment of NASH
- (i) 5 HT-3 antagonists
- (j) Endoscopic ultrasonography.

[KM 016]

Sub. Code : 1254

D.M. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch IV — Gastroenterology

Paper IV — RECENT ADVANCES IN THE
SPECIALITY

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 : (2 × 15 = 30)

(1) Describe the recent advances in the diagnosis and non-surgical management of GERD.

(2) Hereditary non-polyposis colon cancer: Describe the genetic defects, preventive strategies and advancements in the chemotherapy of this entity.

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

(a) Liver stem cells

(b) Entecavir

(c) Aquaretics

(d) Endo-cytoscopy system

(e) Transgastric peritoneoscopy

(f) MARS

(g) Optical coherence tomography

(h) Double balloon enteroscopy

(i) AIDS cholangiopathy

(j) Molecular approaches for treatment of HCC.

[KO 016]

Sub. Code : 1254

D.M. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch IV — Gastroenterology

Paper IV — RECENT ADVANCES IN THE
SPECIALITY

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) Discuss the current concepts in the aetiopathogenesis, diagnosis and management of Non-alcoholic fatty liver disease.

(2) Describe the current concepts in the aetiopathogenesis, and diagnosis of gastric carcinoma and the outcome of various modalities of treatment.

II. Write short notes on:

(10 × 5 = 50)

(a) Antibiotic prophylaxis in severe acute pancreatitis.

(b) Endosonographic fine needle aspiration.

(c) Capsule enteroscopy.

(d) Transgastric peritoneoscopy.

(e) Aquaretics.

(f) Management of Barrett's oesophagus.

(g) Etecavir.

(h) Mechanisms of visceral hypersensitivity in irritable bowel syndrome.

(i) Diagnosis of coeliac disease.

(j) Split liver transplantation.

[KP 016]

Sub. Code : 1254

D.M. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch IV — Gastroenterology

**Paper IV — RECENT ADVANCES IN THE
SPECIALITY**

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 mechanisms of visceral hypersensitivity in irritable bowel syndrome and the newer drugs in the management of the condition. (20)

(2) Discuss the virulence factors of *Helicobacter pylori*, and treatment of the infection by the organism in the Indian Scenario. (15)

(3) Discuss the role of cyclo-oxygenase enzymes I and II. Outline the modes of prevention of drug induced peptic ulceration. (15)

II. Write short notes on :

(6 × 5 = 30)

(a) Recicadotril

(b) Argon plasma coagulation

(c) Virtual colonoscopy

(d) Tacrolimus

(e) Acute graft-versus-host disease

(f) Prophylaxis against infective endocarditis during endoscopy

[KQ 016]

Sub. Code : 1254

D.M. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch IV — Gastroenterology

**Paper IV — RECENT ADVANCES IN THE
SPECIALITY**

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 epidemiology, natural history, current treatment and future strategies for hepatitis B and C in children. (20)

2. Discuss the role of noninvasive assessment of liver fibrosis in clinical practice. (15)

3. Discuss the evaluation and medical management of severe ulcerative colitis. (15)

II. Short notes :

(6 × 5 = 30)

1. Video capsule endoscopy verses double balloon enteroscopy in the management of small intestinal diseases.

2. Medicare criteria for TAN failure and role of intestinal transplantation.

3. JC virus and its role in colorectal cancer.

4. Endoscopic palliative therapies for pancreatic adenocarcinoma.

5. Recent advances in the genetics of inflammatory Bowel disease.

6. Endoscopic sphincterotomy versus balloon dilatation.

[KR 016]

Sub. Code : 1254

D.M. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch IV — Gastroenterology

Paper IV — RECENT ADVANCES IN THE
SPECIALITY

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) Serological diagnosis of Inflammatory bowel disease. (20)
- (2) Discuss the role of liver support systems. (15)
- (3) Diagnosis and management of minimal hepatic encephalopathy. (15)

II. Short notes :

(6 × 5 = 30)

- (a) Classification of Barrets esophagus
 - (b) Magnifying endoscopy
 - (c) Non invasive assessment of hepatic fibrosis
 - (d) Molecular approaches to treatment of hepatocellular carcinoma
 - (e) Entacavir
 - (f) Argon plasma coagulation.
-

August 2008

[KT 016]

Sub. Code: 1254

D.M. DEGREE EXAMINATION

(Higher Specialities)

Branch IV – GASTROENTEROLOGY

(Revised Regulations)

Paper IV – RECENT ADVANCES IN THE SPECIALITY

Q.P. Code: 161254

Time: Three hours

Maximum: 100 Marks

Answer ALL questions

Draw suitable diagrams wherever necessary.

I. Essays:

2 x 20 = 40

1. Describe various causes of liver diseases in HIV patients. Discuss the guidelines for management of combined infections with HIV, HBV and HCV viruses.
2. Discuss recent advances in approach to diagnosis and management of dysphagia.

II. Write short notes on:

10 x 6 = 60

1. Bariatric surgery for nafld.
2. Maintenance antiviral therapy in treatment failure of chronic HCV hepatitis.
3. Endoscopic pancreatic necrosectomy.
4. HCV infection in post liver transplant.
5. Aquaretics.
6. Resistin.
7. Treatment of Gastroparesis.
8. Rome III criteria for diagnosis of IBS.
9. Microscopic colitis.
10. Extrahepatic involvement in congenital hepatic fibrosis.

August 2009

[KV 016]

Sub. Code: 1254

D.M. DEGREE EXAMINATION

(Higher Specialities)

Branch IV – GASTROENTEROLOGY

(Revised Regulations)

Paper IV – RECENT ADVANCES IN THE SPECIALITY

Q.P. Code: 161254

Time: Three hours

Maximum: 100 Marks

Answer ALL questions

Draw suitable diagrams wherever necessary.

I. Essays:

2 x 20 = 40

1. Discuss intestinal failure and role of intestinal transplantation.
2. Discuss long term strategy for management of liver transplant recipient.

II. Write short notes on:

10 x 6 = 60

1. Surveillance in chronic pancreatitis.
2. Neonatal hemochromatosis.
3. NOTES.
4. Refeeding syndrome.
5. High resolution manometry.
6. Pathobiology and management of gastro intestinal stromal tumors.
7. Sorafenib.
8. Recent trends in managing pruritis in liver disease.
9. Compare the efficacy of capsule endoscopy versus double balloon endoscopy in obscure gastrointestinal bleed.
10. Role of PET scan in gastroenterology.

February 2011

[KY 016]

Sub. Code: 1254

DOCTOR OF MEDICINE (D.M.) DEGREE EXAMINATION

(Super Specialities)

Branch IV – GASTROENTEROLOGY

(Revised Regulations)

Common to all candidates

Paper IV – RECENT ADVANCES IN THE SPECIALITY

Q.P. Code: 161254

Time: Three hours

Maximum: 100 Marks

Answer ALL questions

Draw suitable diagrams wherever necessary.

I. Essays:

2 x 20 = 40

1. Cancer risks and screening recommendations for juvenile polyposis.
2. Criteria for liver transplantation and contraindications for transplant.

II. Write short notes on:

10 x 6 = 60

1. KIT (tyrosin kinase inhibitor) in gastrointestinal stromal tumours.
2. Noninvasive absorptive and digestive functional evaluation of malabsorption.
3. Microsatellite instability in colorectal cancer.
4. Natural Orifice Transluminal Endoscopic Surgery (NOTES).
5. Nitazoxanide.
6. Radiological imaging in diagnosis of pancreatic cancer.
7. Advances in palliation of esophageal cancer.
8. Mutation analysis in Wilson disease.
9. Prophylaxis recommendation for patients on clopidogrel and aspirin.
10. Turmeric for inflammatory bowel disease.

August 2011

[KZ 016]

Sub. Code: 1254

**DOCTORATE OF MEDICINE (D.M.) DEGREE EXAMINATION
(SUPER SPECIALITIES)**

BRANCH IV – GASTROENTEROLOGY

RECENT ADVANCES IN THE SPECIALITY

Q.P. Code: 161254

**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. Liver donor transplantation for Liver Failure. Discuss indications, complications in donor and recipient. | 11 | 35 | 15 |
| 2. Principles and outcome of photodynamic therapy in GI Cancer. | 11 | 35 | 15 |

II. Write notes on :

- | | | | |
|---|---|----|---|
| 1. Magnetic resonance enterography. | 4 | 10 | 7 |
| 2. Evaluation and management of nocturnal reflux. | 4 | 10 | 7 |
| 3. Endoscopic procedures for pancreatic leak. | 4 | 10 | 7 |
| 4. New mesalamine preparations. | 4 | 10 | 7 |
| 5. Model for End Stage Liver Disease for liver disease severity assessment. | 4 | 10 | 7 |
| 6. Causes and management of Mirizzi's syndrome. | 4 | 10 | 7 |
| 7. Biological features of tumour metastasis. | 4 | 10 | 7 |
| 8. Indications, contraindications and complications of Balloon Enteroscopy. | 4 | 10 | 7 |
| 9. Endoscopic mucosal resection. | 4 | 10 | 7 |
| 10. Budesonide: current indications in GI practice. | 4 | 10 | 7 |

[LB 016]

AUGUST 2012

Sub. Code: 1254

D.M – GASTROENTEROLOGY

Paper – IV RECENT ADVANCES IN THE SPECIALITY

Q.P. Code: 161254

**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. Recent advances in the management of upper GI bleeding.
Discuss scoring systems used to risk stratify patients with upper GI bleed. | 16 | 35 | 15 |
| 2. Management of Barrett's oesophagus. | 16 | 35 | 15 |

II. Write notes on:

- | | | | |
|--|---|----|---|
| 1. Clinical utility of genetic testing for Wilson's disease: | 4 | 10 | 7 |
| 2. Natural history of hepatitis B infection : clinical relevance. | 4 | 10 | 7 |
| 3. Short chain fatty acids : importance in Gastrointestinal system. | 4 | 10 | 7 |
| 4. Newer drugs to treat Hepatitis C. | 4 | 10 | 7 |
| 5. Management of achalasia cardia. | 4 | 10 | 7 |
| 6. Narrow band imaging: utility in GI disorders. | 4 | 10 | 7 |
| 7. Deceased donor versus live related liver transplantation : discuss the merits and demerits of each. | 4 | 10 | 7 |
| 8. Balloon enteroscopy : types, indications. | 4 | 10 | 7 |
| 9. Minimal hepatic encephalopathy : clinical relevance, management. | 4 | 10 | 7 |
| 10. Thrombophilic factors and Budd Chiari syndrome : investigations and treatment. | 4 | 10 | 7 |

D.M. – GASTROENTEROLOGY
Paper – IV RECENT ADVANCES IN THE SPECIALITY
Q.P.Code: 161254

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2X15=30)

1. Role of intestinal transplant – discuss the various problems associated with intestinal transplant.
2. **GERD** – discuss the merits and demerits of various current modalities of treatment.

II. Write notes on:

(10X7=70)

1. Mention the mechanism of action, indications, side effects of Tacrolimus.
2. Discuss in brief the merits and demerits of various Enteral stents.
3. What is ConFocal Endoscopy? What are its uses ?
4. Mention the advantages of using Positron emission tomography in GI cancers.
5. What is the mechanism of action, uses of Levosulphride?
6. State the various advantages in using Lactic Dehydrogenase in various Liver diseases.
7. Discuss in brief the various interventions in Hemobilia.
8. What are the merits and demerits of PAIR therapy in Hydatid Cyst management.
9. Mention the uses and problems in using Diltiazem gel.
10. Discuss in detail the diagnostic criteria for Typhoid hepatitis.

[LF 016]

AUGUST 2014

Sub. Code: 1254

D.M. – GASTROENTEROLOGY

Paper IV– RECENT ADVANCES IN THE SPECIALITY

Q. P. Code: 161254

Time: Three Hours

Maximum: 100 Marks

Answer ALL questions in the same order.

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the current indications and results of liver transplantation for Hepato Cellular Carcinoma (HCC)
2. Discuss the mechanism of action, indications and regimes of newer drugs in HCV treatment

II. Write notes on:

(10 x 7 = 70)

1. Mention the principles and indications of photodynamic therapy in cholangiocarcinoma
2. Natural Orifices Transluminal Endoscopic Surgeries (NOTES)
3. Virtual colonoscopy
4. Endoscopic management of Obesity
5. Non surgical management of pancreatic pseudo cyst
6. Endoscopic management of choledocholithiasis
7. Narrow band imaging and its uses
8. Aquaretics
9. Pegelated interferon in HBV infection
10. Malarial hepatitis .

D.M. – GASTROENTEROLOGY

Paper IV – RECENT ADVANCES IN THE SPECIALITY

Q.P.Code: 161254

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the Hepatological- genetic metabolic diseases in Gastroenterology.
2. What is the current status of diagnosis and management of severe ulcerative colitis and specify the various guidelines while treating severe ulcerative colitis.

II. Write notes on:

(10 x 7 = 70)

1. Write briefly on Malarial Hepatitis.
2. Mention the endoscopic findings in Eosinophilic Esophagitis.
3. Discuss various scoring systems in the diagnosis of acute pancreatitis.
4. Differentiate & categorize the hypervascular metastasis to liver.
5. Role of Argon plasma coagulation in gastrohepatology.
6. What is the dosage and side effects of Sorafenib?
7. Merits and demerits of Histological activity index.
8. Hepatitis C management in chronic renal disease.
9. Radio frequency ablation in liver disease.
10. Newer esophageal stents.

[LH 016]

AUGUST 2015

Sub. Code: 1254

D.M. – GASTROENTEROLOGY

PAPER IV – RECENT ADVANCES IN THE SPECIALITY

Q.P. Code : 161254

Time : Three Hours

Maximum : 100 marks

Answer ALL questions

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the current concepts on emergence and treatment of resistance to Nucleoside / nucleotide analogues in chronic hepatitis B.
2. Mention the mechanism of action, indications and various treatment regimes involving Sofosbuvir.

II. Write notes on :

(10 x 7 = 70)

1. Mention mechanism of action, indication and outcome of Radiofrequency ablation in Hepatocellular carcinoma.
2. Micro RNA.
3. Spy glass Device.
4. Different Entral stents and its uses.
5. Newer capsule endoscopes.
6. m TOR signaling pathway.
7. Endoscopic management of Barrett's esophagus.
8. POEM.
9. Minimal hepatic encephalopathy.
10. Revised ATLANTA CLASSIFICATION of Acute Pancreatitis.

[LI 016]

FEBRUARY 2016

Sub. Code: 1254

D.M. – GASTROENTEROLOGY

PAPER IV – RECENT ADVANCES IN THE SPECIALITY

Q.P. Code : 161254

Time : Three Hours

Maximum : 100 marks

Answer ALL questions

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the advances in the non-invasive assessment of Liver Fibrosis.
2. Discuss the role of Nitric oxide in health and disease.

II. Write notes on :

(10 x 7 = 70)

1. Fecal Microbata transplantation.
2. S-Adenosyl-L-Methionine.
3. MELD score.
4. Anorexia-Cachexia syndrome.
5. Tumor necrosis factor inhibitors in Inflammatory bowel disease.
6. Monoclonal antibodies in G.I diseases.
7. Application of MRI in evaluation of Hepato-biliary pancreatic diseases.
8. High resolution manometry.
9. ConFocal endoscopy.
10. Targeted molecular therapy for Hepatocellular Carcinoma.

(LJ 016)

AUGUST 2016

Sub. Code:1254

D.M. – GASTROENTEROLOGY

Paper IV – RECENT ADVANCES IN THE SPECIALITY

Q.P.Code: 161254

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the current scenario in the management of Hepatitis C patients in India with the newly available interferon free anti-viral drug regimens.
2. Discuss the indications and compare various modalities for non surgical management of Achalasia cardia.

II. Write notes on:

(10 x 7 = 70)

1. Is liver fibrosis reversible?
2. Endoscopic mucosal resection.
3. Ilaprazole.
4. Transfusion Transmitted Virus.
5. Quasi species of Hepatitis C virus.
6. Role of Probiotics in IBS and IBD.
7. MARS.
8. Micro RNA in NAFLD.
9. Transgastric peritoneoscopy.
10. Split Liver transplantation.

D.M. – GASTROENTEROLOGY

Paper IV – RECENT ADVANCES IN THE SPECIALITY

Q.P.Code: 161254

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the recent advances in the management of refractory oesophageal strictures.
2. Discuss the role of Genotyping of Hepatitis B virus in the management of chronic hepatitis B infections.

II. Write notes on:

(10 x 7 = 70)

1. Role of EUS in carcinoma esophagus.
2. Molecular approaches to treatment of HCC.
3. Endoscopic submucosal dissection.
4. Hepatocyte transplantation.
5. Indications and types of Biliary stents.
6. Endoscopic pancreatic necrosectomy.
7. Use of Sofusbuvir – Velpatasvir.
8. Endoscopic management of Dysphagia.
9. Balloon Occluded Retrograde Transvenous Obliteration (BRTO).
10. Non invasive markers of Liver fibrosis.

D.M. – GASTROENTEROLOGY

Paper IV – RECENT ADVANCES IN THE SPECIALITY

Q.P.Code: 161254

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss in detail the management of chronic HBV treatment in chronic renal failure, cancer chemotherapy and in HIV –co infection.
2. Discuss in detail the role of nitric oxide in Health and disease.

II. Write notes on:

(10 x 7 = 70)

1. What is the dosage, uses and side effects of Tenofovir?
2. Describe the role of MR defecation proctography in the constipation clinic.
3. What is Toll like receptors? What is their relevance in gastroenterology?
4. Mention the vaccines to be given mandatory before, during and after splenectomy.
5. What is the dosage, uses and side effects of Tolvaptan?
6. Role of capsule endoscopy in the small bowel affected by Crohn's disease?
7. Mention the role of Probiotics and its role in Dysbiosis.
8. Newer drugs in management of GERD.
9. NAFLD in 2014.
10. Recent role of endoscopic management of Pancreatic necrosis.

D.M. – MEDICAL GASTROENTEROLOGY

Paper IV – RECENT ADVANCES IN THE SPECIALITY

Q.P.Code: 161254

Time: Three Hours

Maximum: 100 Marks

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

1. Discuss the role of Gut microbiome in health and disease.
2. Describe the current concepts in the etiopathogenesis, diagnosis and management of Non alcoholic fatty liver disease.

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

1. Write briefly on role of endoscopic ultrasound in gastric variceal bleed.
2. What is the relevance of medium chain fatty acids in gastroenterology?
3. What is the importance of terumo guide wire in ERCP suite?
4. Discuss role of Rifaximin in Gastroenterology and Hepatology.
5. What is the role of MR Elastography?
6. Narrow band imaging and its uses.
7. Discuss the uses, side effects of Tacrolimus.
8. Endoscopic Submucosal Dissection.
9. Refractory esophageal strictures - endotherapy.
10. Antegrade Pancreatic Endotherapy.

(LP 016)

AUGUST 2019

Sub. Code: 1254

D.M. – MEDICAL GASTROENTEROLOGY

Paper IV – RECENT ADVANCES IN THE SPECIALITY

Q.P.Code: 161254

Time: Three Hours

Maximum: 100 Marks

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

1. Recent advances in treatment of hepatitis C infection.
2. Endoscopic bariatric therapies.

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

1. Emricasan.
2. New drugs for treatment of irritable bowel syndrome.
3. Potassium-competitive acid blockers.
4. Hepatitis B gene therapy.
5. Fecal filtrate transfer.
6. Glycogenic hepatopathy.
7. Non-invasive biomarkers in NAFLD.
8. Esophageal pH-impedance testing in clinical practice.
9. Current role of pancreatoscopy.
10. Non-invasive screening of esophageal varices in portal hypertension.

(LR 016)

**NOVEMBER 2020
(AUGUST 2020 SESSION)**

Sub. Code: 1254

D.M. – MEDICAL GASTROENTEROLOGY

Paper IV – RECENT ADVANCES IN THE SPECIALITY

Q.P.Code: 161254

Time: Three Hours

Maximum: 100 Marks

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

1. Discuss the recent advances in the diagnosis and treatment of GERD (New tricks of old Disease).
2. Discuss the emerging therapies of inflammatory bowel disease.

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

1. PLEX – Plasma exchange in Acute liver failure
2. Obeticholic acid in liver diseases
3. Newer esophageal stents
4. Role of immunoperoxidase in diagnosing pancreatic diseases
5. Artificial intelligence in gastroenterology
6. Guidelines for practice of endoscopy during COVID - 19
7. G-CSF in the management of alcoholic hepatitis
8. Steatohepatitic HCC
9. Sarcopenia in cirrhosis
10. Intestinal failure and intestinal transplantation

(DM 0821)

AUGUST 2021

Sub. Code: 1254

D.M. – MEDICAL GASTROENTEROLOGY

Paper IV – RECENT ADVANCES IN THE SPECIALITY

Q.P.Code: 161254

Time: Three Hours

Maximum: 100 Marks

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

1. Discuss endo ultra sound and its use in gastro enterology.
2. Discuss the indications and technique of per oral endoscopic myotomy.

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

1. Adalimumab.
2. COVID -19 and GI tract.
3. Cholangioscopy.
4. Gastro intestinal stromal tumour management.
5. Intestinal transplant.
6. Argon plasma coagulation.
7. Confocal laser endomicroscopy.
8. Positron emission tomogram in GI disease.
9. Capsule endoscopy (Newer).
10. Endoscopic mucosal resection.

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

[DM 0223]

FEBRUARY 2023

Sub. Code :1254

D.M. – MEDICAL GASTROENTEROLOGY

PAPER IV – RECENT ADVANCES IN THE SPECIALITY

Q.P.Code: 161254

Time: Three Hours

Maximum: 100 Marks

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

1. Discuss in detail the new insights in Histological Diagnosis and medical management of Colorectal Cancer.
2. Discuss the types of Liver Support System and detailed note on Bioartificial Liver support system.

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

1. Per-rectal Endoscopic Myotomy.
2. Role of MIR (Mid-Infrared Spectroscopy) in Liver Disease.
3. Flexible Robotic Endoscopy.
4. Anticoagulation during Endoscopy.
5. Immunotherapy for Pancreatic Cancer.
6. Caffeine Enema – Potential Benefits and Risks.
7. Living Donor Small Bowel Transplantation.
8. Endoscopic management of Iatrogenic Endoscopic Perforation.
9. Fidaxomicin.
10. Gastro-Intestinal and Liver manifestations of COVID-19.

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

[DM 0124]

JANUARY 2024

Sub. Code :1254

D.M. – MEDICAL GASTROENTEROLOGY

PAPER IV – RECENT ADVANCES IN THE SPECIALITY

Q.P.Code: 161254

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the Current Concepts on emergence and treatment of resistance to Nucleoside and Nucleotide analogues in Chronic Hepatitis B.
2. Recent advances in the diagnosis and endoscopic management of GERD.

II. Write notes on:

(10 x 7 = 70)

1. Endoscopic Submucosal Dissection (ESD).
2. Transarterial Radioembolization (TARE).
3. Fecal Microbiota Transplantation.
4. Targeted Molecular Therapy for Colorectal Carcinoma.
5. MELD 3.0 score.
6. Auxiliary Liver Transplantation.
7. Narrow Band Imaging.
8. Host microbiota interactions in IBD.
9. Newer Chemotherapy in Hepatocellular Carcinoma.
10. Endotherapy in Refractory Esophageal Strictures.

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

[DM 0225]

FEBRUARY 2025

Sub. Code :1254

D.M. – MEDICAL GASTROENTEROLOGY

PAPER IV – RECENT ADVANCES IN THE SPECIALITY

Q.P. Code: 161254

Time: Three Hours

Maximum: 100 Marks

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

1. Discuss the emerging therapeutic targets for portal hypertension.
2. Describe the advancements in endoscopic management of bile duct tumours.

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

1. Regorafenib.
2. Islet cell transplant.
3. Newer advances in imaging techniques for hepatocellular carcinoma.
4. Anti-reflux mucosal ablation.
5. Axios stent.
6. Chromoendoscopy.
7. Resmetirom.
8. Exclusive enteral nutrition.
9. MR Enterography.
10. Upadacitinib.

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

[DM 0825]

AUGUST 2025

Sub. Code :1254

D.M. – MEDICAL GASTROENTEROLOGY

PAPER IV – RECENT ADVANCES IN THE SPECIALITY

Q.P. Code: 161254

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the indications and contraindications for Liver Transplantation. Explain the role of Immunosuppressants.
2. Discuss Third Space Endoscopy and its advantages.

II. Write notes on:

(10 x 7 = 70)

1. Targeted therapy in HCC.
2. Lumen opposing Metallic Stents.
3. Topical Vasodilators for Anal Fissure.
4. Spiral Enteroscope.
5. Biofeedback therapy in constipation.
6. Obeti Cholic Acid.
7. Types of clipping devices used in GIT.
8. LASERS in GI Tract.
9. Management of Hydatid Cyst Liver.
10. High Resolution Esophageal Manometry - Latest developments.
