

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

November-2001

[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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March-2002

[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.

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) Esomeprazol.
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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) P₅₃ 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.

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II. Write short notes on :

(10 × 5 = 50)

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.

- (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.

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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.

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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.

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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 :

(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
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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.

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II. Short notes :

(6 × 5 = 30)

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 :

- (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)

- (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 Time Marks
(Max.) (Max.) (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 .
