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# MANIPAL ACADEMY OF HIGHER EDUCATION

DM (MEDICAL GASTROENTEROLOGY) DEGREE EXAMINATION – DECEMBER 2023

## PAPER I

Monday, December 11, 2023

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL questions.**

✍ **Long Essays: (Answer in approximately 1500 words)**

1. Describe the blood supply, development and common developmental anomalies of the pancreas

(20 marks)

2. Outline the enterohepatic circulation of bile acids and its alterations in disease

(20 marks)

3. **Short Essays: (Answer in 400 - 500 words)**

3A. Gut permeability in health and disease

3B. Rings, webs and diverticulae of Esophagus

3C. Terlipressin

3D. Biliary microliths

3E. Kupffer cells

3F. Virulence factors of Helicobacter pylori

(10 marks × 6 = 60 marks)



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# MANIPAL ACADEMY OF HIGHER EDUCATION

DM (MEDICAL GASTROENTEROLOGY) DEGREE EXAMINATION – DECEMBER 2023

## PAPER II

Tuesday, December 12, 2023

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL questions.

✍ Long Essays: (Answer in approximately 1500 words)

1. Describe the pathophysiology, management and prophylaxis of oesophageal variceal bleeding.

(20 marks)

2. Discuss the pathogenesis, management and complications of gastro-oesophageal reflux disease

(20 marks)

3. Short Essays: (Answer in 400 - 500 words)

3A. Mirizzi's syndrome

3B. Intraductal pancreatic mucin secreting tumour

3C. Idiopathic recurrent acute pancreatitis

3D. Gastric carcinoid

3E. Lubiprostone

3F. Nasoenteric feeding

(10 marks × 6 = 60 marks)



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# MANIPAL ACADEMY OF HIGHER EDUCATION

DM (MEDICAL GASTROENTEROLOGY) DEGREE EXAMINATION – DECEMBER 2023

## PAPER III

Wednesday, December 13, 2023

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL questions.**

✍ **Long Essays: (Answer in approximately 1500 words)**

1. Outline the aetiology of acute liver failure and discuss its management. (20 marks)

2. Define obscure gastrointestinal bleeding. Outline the current diagnostic approach and management of the condition. (20 marks)

3. **Short Essays: (Answer in 400 - 500 words)**

3A. Treatment of portal cavernoma cholangiopathy

3B. Drug induced pancreatitis

3C. Lymphocytic colitis

3D. Management of acute corrosive esophageal injury

3E. Adenomyomatosis of the gall bladder

3F. Treatment of unresectable gastro-intestinal stomal tumour

(10 marks × 6 = 60 marks)



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# MANIPAL ACADEMY OF HIGHER EDUCATION

DM (MEDICAL GASTROENTEROLOGY) DEGREE EXAMINATION – DECEMBER 2023

## PAPER IV

Thursday, December 14, 2023

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL questions.

✍ Long Essays: (Answer in approximately 1500 words)

1. Outline the diagnostic criteria for acute-on-chronic liver failure. Describe the role of Granulocyte colony stimulating factor in the management of this condition

(20 marks)

2. Discuss the indications for therapy and the management of Helicobacter pylori infection in today's practice

(20 marks)

3. Short Essays: (Answer in 400 - 500 words)

3A. Antibiotic prophylaxis in endoscopic therapy

3B. Role of probiotics in inflammatory bowel diseases

3C. Pseudocyst versus organized pancreatic necrosis

3D. S Adenosyl Methionine

3E. Treatment of eosinophilic oesophagitis

3F. Neo-adjuvant therapy in pancreatic cancer

(10 marks × 6 = 60 marks)

