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MANIPAL ACADEMY OF HIGHER EDUCATION

DM (GASTROENTEROLOGY) DEGREE EXAMINATION – SEPTEMBER 2021

SUBJECT: PAPER I: BASIC SCIENCES AS APPLICABLE TO GASTROENTEROLOGY

Wednesday, September 01, 2021

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL questions.

✍ Long Essays: (Answer in approximately 1500 words)

1. Discuss normal gastric motility and its alterations in functional dyspepsia. (20 marks)

2. Describe the structure of the hepatocyte and outline the functions of the organelles within. (20 marks)

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

3A. Interstitial cells of Cajal

3B. Genetics of Wilson Disease

3C. Nutritional deficiencies in chronic pancreatitis

3D. Covalently closed circular DNA

3E. Embryonic development of normal oesophagus

3F. Ivermectin

(10 marks × 6 = 60 marks)



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MANIPAL ACADEMY OF HIGHER EDUCATION

DM (GASTROENTEROLOGY) DEGREE EXAMINATION – SEPTEMBER 2021

SUBJECT: PAPER II: GASTROENTEROLOGY AND HEPATOLOGY

Thursday, September 02, 2021

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

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

1. Outline the causes, diagnosis and the management in Budd Chiari syndrome. (20 marks)
2. Outline the assessment of severity of acute pancreatitis. Discuss the medical management of severe acute pancreatitis. (20 marks)

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

- 3A. Palliation of esophageal cancer
- 3B. Anorectal Crohn's disease
- 3C. Lille model in alcoholic hepatitis
- 3D. Biliary ascariasis
- 3E. Anti-oxidants for chronic pancreatitis
- 3F. Dieulafoy's lesion.

(10 marks × 6 = 60 marks)



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MANIPAL ACADEMY OF HIGHER EDUCATION

DM (GASTROENTEROLOGY) DEGREE EXAMINATION – SEPTEMBER 2021

SUBJECT: PAPER III: GASTROENTEROLOGY & HEPATOLOGY

Friday, September 03, 2021

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL questions.**

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

1. Describe the natural history and the management of Hepatitis B virus infection. (20 marks)

2. Outline the role of Helicobacter pylori in gastroduodenal disease and the management of the infection. (20 marks)

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

3A. Gastric carcinoid

3B. Familial adenomatous polyposis coli

3C. AIDS enteropathy

3D. Gall bladder sludge

3E. Glucagonoma

3F. Anorexia nervosa

(10 marks × 6 = 60 marks)



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MANIPAL ACADEMY OF HIGHER EDUCATION

DM (GASTROENTEROLOGY) DEGREE EXAMINATION – SEPTEMBER 2021

SUBJECT: PAPER IV: RECENT ADVANCES IN GASTROENTEROLOGY

Saturday, September 04, 2021

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL questions.

✍ Long Essays: (Answer in approximately 1500 words)

1. Describe the changing epidemiology peptic ulcer disease and its complications. Outline the management of antiplatelet agents in a patient with peptic ulcer bleed.

(20 marks)

2. Discuss the indications and contraindications for liver transplantation and compare the merits and demerits of diseased and live-related donor transplants.

(20 marks)

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

3A. Granulocyte colony stimulating factor for alcoholic hepatitis

3B. Surveillance in Barrett's oesophagus

3C. Prevention of post ERCP pancreatitis

3D. Palliative chemotherapy in advanced biliary malignancy

3E. Ondansetron in irritable bowel syndrome

3F. Transient elastography

(10 marks × 6 = 60 marks)

