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MANIPAL UNIVERSITY
DM (GASTROENTEROLOGY) DEGREE EXAMINATION – JULY 2016
SUBJECT: PAPER II: GASTROENTEROLOGY AND HEPATOLOGY

Thursday, July 14, 2016

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

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

1. Discuss the prognostic evaluation and management of non-variceal upper gastrointestinal bleeding. (20 marks)

2. Outline the mechanisms of pain in chronic pancreatitis. Discuss the role of endoscopic therapy for the pain of chronic pancreatitis. (20 marks)

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

3A. Adverse events of Tumour Necrosis Factor alpha antagonists

3B. Gall stone ileus

3C. Refractory ascites

3D. Neoadjuvant therapy for oesophageal cancer

3E. Hepatitis E in special populations

3F. Palliation of hilar cholangiocarcinoma

(10 marks × 6 = 60 marks)



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MANIPAL UNIVERSITY

DM (GASTROENTEROLOGY) DEGREE EXAMINATION – JULY 2016

SUBJECT: PAPER I: BASIC SCIENCES AS APPLICABLE TO GASTROENTEROLOGY

Wednesday, July 13, 2016

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

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

1. Describe the segmental anatomy of the normal liver. Discuss the process of liver regeneration after hepatic resection.

(20 marks)

2. Outline the nutritional assessment of a hospitalized adult. Discuss the complications of parenteral nutrition.

(20 marks)

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

3A. Pancreatic acinar cell

3B. Rifaximin

3C. Physiology of Vitamin B 12 absorption

3D. Normal gastric motility

3E. Histological changes in ulcerative colitis

3F. Sphincter of Oddi

(10 marks × 6 = 60 marks)



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MANIPAL UNIVERSITY

DM (GASTROENTEROLOGY) DEGREE EXAMINATION – JULY 2016

SUBJECT: PAPER IV: RECENT ADVANCES IN GASTROENTEROLOGY

Saturday, July 16, 2016

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

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

1. Discuss the emerging concepts on the role of gut microbiota in gastrointestinal and liver disease.

(20 marks)

2. Describe the changing epidemiology of Clostridium difficile infection. Outline the current management of the infection.

(20 marks)

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

3A. Chicago classification of oesophageal dysmotility

3B. Serrated colonic polyp

3C. Acute-on-chronic liver failure

3D. Anticoagulants for portal vein thrombosis in cirrhosis

3E. Anti-oxidant therapy in chronic pancreatitis

3F. Sofosbuvir

(10 marks × 6 = 60 marks)



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MANIPAL UNIVERSITY

DM (GASTROENTEROLOGY) DEGREE EXAMINATION – JULY 2016

SUBJECT: PAPER III: GASTROENTEROLOGY & HEPATOLOGY

Friday, July 15, 2016

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions.

✍ Long Essays: (answer in approximately 1500 words):

1. Discuss the pathogenesis and management of irritable bowel syndrome.

(20 marks)

2. How do you assess the severity of acute pancreatitis? Outline the role of endoscopy in management of acute pancreatitis.

(20 marks)

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

3A. Choice of regimen for Helicobacter pylori eradication

3B. Pouchitis

3C. Antibiotic therapy in acute diarrhea

3D. Choledochal cyst

3E. Malarial hepatopathy

3F. Diagnosis of hilar cholangiocarcinoma

(10 marks × 6 = 60 marks)

