

MANIPAL UNIVERSITY**DM (GASTROENTEROLOGY) DEGREE EXAMINATION – JULY 2015****SUBJECT: PAPER I: BASIC SCIENCES AS APPLICABLE TO GASTROENTEROLOGY**

Tuesday, July 14, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL questions.**

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

1. Outline the physiology of bile secretion and the pathophysiology of intra-hepatic cholestasis.
(20 marks)
2. Describe the anatomy of the oesophago-gastric junction and its role in preventing gastro-oesophageal reflux.
(20 marks)

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

- 3A. Transjugular liver biopsy
- 3B. S adenosyl methionine
- 3C. NSAID enteropathy
- 3D. Life cycle of *Enterobius vermicularis*
- 3E. Pancreatic stellate cell
- 3F. Proton pump

(10 marks × 6 = 60 marks)



MANIPAL UNIVERSITY**DM (GASTROENTEROLOGY) DEGREE EXAMINATION – JULY 2015****SUBJECT: PAPER II: GASTROENTEROLOGY AND HEPATOLOGY**

Wednesday, July 15, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL questions.**

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

1. Outline the current management of hepatocellular carcinoma. (20 marks)
2. Discuss the current classification and management of achalasia cardia. (20 marks)

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

- 3A. Gastrinoma
- 3B. Diabetic gastroparesis
- 3C. Adverse events of thiopurines
- 3D. Gastric antral vascular ectasia
- 3E. Surveillance for neoplasia in inflammatory bowel disease
- 3F. Choledochocoele

(10 marks × 6 = 60 marks)



MANIPAL UNIVERSITY**DM (GASTROENTEROLOGY) DEGREE EXAMINATION – JULY 2015****SUBJECT: PAPER III: GASTROENTEROLOGY & HEPATOLOGY**

Thursday, July 16, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL questions.**

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

1. Describe the BCLC system of classification for Hepatocellular carcinoma and the prognosis and management based on the stages. (20 marks)
2. Describe the etiopathogenesis, and management of gastric adenocarcinoma. (20 marks)

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

- 3A. Portal hypertensive gastropathy
- 3B. Diabetic diarrhea
- 3C. Liver dysfunction diseases of the thyroid
- 3D. Cameroon ulcer
- 3E. Carcinoid Syndrome
- 3F. Management of metastatic pancreatic neuroendocrine tumor

(10 marks × 6 = 60 marks)



Reg. No.									
----------	--	--	--	--	--	--	--	--	--

MANIPAL UNIVERSITY

DM (GASTROENTEROLOGY) DEGREE EXAMINATION – JULY 2015

SUBJECT: PAPER IV: RECENT ADVANCES IN GASTROENTEROLOGY

Friday, July 17, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL questions.**

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

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

(20 marks)

2. Outline the complications of obesity and the current management approaches to morbid obesity.

(20 marks)

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

3A. Endoscopic submucosal dissection

3B. Capsule endoscopy for the colon

3C. Stents for benign biliary strictures

3D. Micro RNA's in Gastrointestinal cancer

3E. Granulocyte colony stimulating factor

3F. Diagnosis of eosinophilic oesophagitis

(10 marks × 6 = 60 marks)

