MANIPAL ACADEMY OF HIGHER EDUCATION

DM (GASTROENTEROLOGY) DEGREE EXAMINATION – JULY 2020

SUBJECT: PAPER I: BASIC SCIENCES AS APPLICABLE TO GASTROENTEROLOGY

Wednesday, July 01, 2020

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- **∠** Long Essays: (answer in approximately 1500 words)
- 1. Outline the physiology of calcium metabolism and its abnormalities in gastrointestinal disease.

(20 marks)

2. Describe the normal anatomy of the oesophago-gastric junction and its role in maintaining the antireflux barrier.

(20 marks)

- 3. Short Essays: (Answer in 400 500 words)
- 3.A. Structure of the hepatocyte
- 3B. Budesonide
- 3C. Virulence factors of Helicobacter pylori
- 3D. Duodenal biopsies in malabsorption states
- 3E. Copper metabolism in health
- 3F. Life cycle of Echinococcus granulosus

 $(10 \text{ marks} \times 6 = 60 \text{ marks})$

MANIPAL ACADEMY OF HIGHER EDUCATION DM (GASTROENTEROLOGY) DEGREE EXAMINATION – JULY 2020

SUBJECT: PAPER II: GASTROENTEROLOGY AND HEPATOLOGY

Thursday, July 02, 2020

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Z Answer ALL the questions.
- **∠** Long Essays: (Answer in approximately 1500 words)
- 1. Classify gastric varices. Describe the management and prophylaxis of gastric variceal bleeding.

(20 marks)

2. Describe the causes diagnostic evaluation and management of diarrhea in a patient with acquired immunodeficiency syndrome.

(20 marks)

- 3. Short Essays: (Answer in 400 500 words)
- 3A. Pathogenesis of gall stone pancreatitis
- 3B. Palliation in oesophageal cancer
- 3C. Complications of endoscopic papillotomy
- 3D. Functional abdominal bloating
- 3E. Faecal incontinence
- 3F. Treatment of acute diverticulitis

 $(10 \text{ marks} \times 6 = 60 \text{ marks})$

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MANIPAL ACADEMY OF HIGHER EDUCATION

DM (GASTROENTEROLOGY) DEGREE EXAMINATION – JULY 2020

SUBJECT: PAPER III: GASTROENTEROLOGY & HEPATOLOGY

Friday, July 03, 2020

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- answer ALL the questions.
- ∠ Long Essays: (Answer in approximately 1500 words):
- 1. Define tropical sprue. Describe its etiology, clinical features, diagnosis and management.

(20 marks)

2. Describe the evaluation and management of recently detected Hepatitis B surface agent in a pregnant woman.

(20 marks)

- 3. Short Essays: (Answer in 400 500 words)
- 3A. Pneumatosis cytoides intestinal
- 3B. Abdominal pain in acquired immunodeficiency syndrome
- 3C. Hepatic granulomas
- 3D. Treatment of hepato-pulmonary syndrome
- 3E. Periampullary adenoma
- 3F. Faecal occult blood

 $(10 \text{ marks} \times 6 = 60 \text{ marks})$



Reg. No.

MANIPAL ACADEMY OF HIGHER EDUCATION

DM (GASTROENTEROLOGY) DEGREE EXAMINATION – JULY 2020

SUBJECT: PAPER IV: RECENT ADVANCES IN GASTROENTEROLOGY

Saturday, July 04, 2020

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- ≥ Answer ALL the questions.
- ∠ Long Essays: (Answer in approximately 1500 words)
- 1. Describe the management of upper GI bleeding in a patient with acute coronary syndrome.

(20 marks)

2. Outline the role of biologicals in the management of inflammatory bowel diseases.

(20 marks)

- 3. Short Essays: (Answer in 400 500 words)
- 3.A. Faecal transplantation
- 3B. Non-celiac gluten hypersensitivity
- 3C. Trans-arterial radiotherapy for hepatocellular carcinoma
- 3D. Linaclotide
- 3E. Autoimmune cholangiopathy
- 3F. Anti-oxidant therapy in chronic pancreatitis

 $(10 \text{ marks} \times 6 = 60 \text{ marks})$