

# **DM [Gastroenterology]**

BF/2023/12

## **Basic Sciences as related to Gastroenterology [Paper –I]**

Time : 3 Hours

M.M.: 100

Note: Attempt all questions. All questions carry equal marks.

**NO SUPPLEMENTARY SHEET SHALL BE ALLOWED/PROVIDED**

**The student must write Q.P. Code in the space provided on the Title page of the Answer Book.**

Illustrate your answer with suitable diagrams.

1. Carcinoma gall bladder epidemiology and prevention. [10]
2. NIT in hepatic steatosis and fibrosis. [10]
3. Parasitic disease in gastrointestinal tract. [10]
4. Regulation of gastric acid secretion. [10]
5. Digestion and absorption of vitamin B12. [10]
6. Genetic testing in pancreatitis. [10]
7. Disorder of bilirubin metabolism. [10]
8. Physiologic and immunologic barriers of the gastrointestinal tract. [10]
9. Esophageal motility disorder. [10]
10. Etiology and pathogenesis of IBD. [10]

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**Clinical Gastroenterology**

**[Paper –II]**

Time : 3 Hours

M.M.: 100

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Illustrate your answer with suitable diagrams.

1. Short and long term management of Barrett's esophagus. [10]
2. Approach to a case of incidentally detected CBD stone in the second trimester of pregnancy on a routine USG abdomen. [10]
3. Role of plasma exchange in patients with acute on chronic liver failure. [10]
4. Should patients with severe alcoholic hepatitis not responding/eligible to steroid be conserved for orthotropic liver transplantation? [10]
5. Should patients with functional dyspepsia be treated for H. pylori infection? Discuss potential management strategies in this situation. [10]
6. Management of microscopic colitis. [10]
7. Immunoproliferative small intestinal disease. [10]
8. Assessment of nutritional status in an ICU patient and further management strategies. [10]
9. Stepwise diagnostic approach to a patient with recurrent acute pancreatitis. [10]
10. Endoscope disinfection. [10]

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**Investigative Gastroenterology  
[Paper –III]**

Time : 3 Hours

M.M.: 100

Note: Attempt all questions. All questions carry equal marks.

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**The student must write Q.P. Code in the space provided on the Title page of the Answer Book.**

Illustrate your answer with suitable diagrams.

1. Electrogastrography [10]
2. EUS guided tissue sampling methods [10]
3. Fecal microbiota composition and diversity tests for its evaluation [10]
4. Non-invasive tests for evaluation of liver fibrosis [10]
5. Portal pressure measurement technique [10]
6. Liquid biopsy for HCC and biliopancreatic malignancy [10]
7. Evaluation of acute renal failure in decompensated cirrhosis [10]
8. Evaluation of SIBO by breath testing tests [10]
9. Screening for colonic malignancy in IBD [10]
10. Diagnostic approach for acute mesenteric ischemia [10]

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## **Recent advances in Gastroenterology [Paper –IV]**

Time : 3 Hours

M.M.: 100

Note: Attempt all questions. All questions carry equal marks.

**NO SUPPLEMENTARY SHEET SHALL BE ALLOWED/PROVIDED**

**The student must write Q.P. Code in the space provided on the Title page of the Answer Book.**

Illustrate your answer with suitable diagrams.

1. Molecular inflammatory scores in inflammatory bowel disease. [10]
2. Proton pump inhibitors and inflammatory bowel disease. [10]
3. Non-invasive biomarkers of diagnosis of colorectal neoplasia. [10]
4. Fibroscan-AST (FAST) score for non-invasive assessment of liver fibrosis. [10]
5. Helicobacter pylori eradication and non-cardia gastric adenocarcinoma. [10]
6. Intestinal cells of Cajal. [10]
7. Visceral myopathy. [10]
8. Osteopontin and non-alcoholic steatohepatitis. [10]
9. Computer aided adenoma detection during colonoscopy. [10]
10. Statin therapy in prevention and management of cirrhosis, portal hypertension and hepatocellular carcinoma. [10]

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