

**GASTROENTEROLOGY**

**PAPER – II**

Time : 3 hours  
Max. Marks : 100

GASTRO/D/17/10/II

**Important instructions:**

- Attempt all questions in order.
- Each question carries 10 marks.
- Read the question carefully and answer to the point neatly and legibly.
- Do not leave any blank pages between two answers.
- Indicate the question number correctly for the answer in the margin space.
- Answer all the parts of a single question together.
- Start the answer to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

Write short notes on:

1. A 30 year old primigravida presented to outpatient department with jaundice of 7 days. 3+4+3
  - a. What are the causes of jaundice in her?
  - b. How shall you establish diagnosis?
  - c. How will you treat her?
2. A 50 year old male with advanced cirrhosis, underwent liver transplantation. On Day 6, post transplant, he developed jaundice and there was an increase in ALT, AST and alkaline phosphatase. 3+4+3
  - a. What are the possible causes?
  - b. How shall you confirm diagnosis?
  - c. How shall you treat?
3. Discuss pancreas divisum under the following headings: 4+4+2
  - a. Embryological basis
  - b. Anatomical variants (with diagram)
  - c. Which patients with pancreas divisum have the best response to endotherapy?
4.
  - a. Classify benign biliary stricture (with representative diagram) 4+4+2
  - b. Management based on site of stricture.
  - c. Indications for surgery.
5.
  - a. Discuss replication cycle of Hepatitis B virus to highlight potential target for development of therapeutic strategies 6+4
  - b. What are the evolving drugs for Hepatitis B virus?
6.
  - a. Clinical presentation and management of papillary stenosis in HIV patient with CD4 count  $< 200/\text{mm}^3$ . 5+5
  - b. Etiology and histology of vanishing bile duct syndrome.

**P.T.O.**

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| 7.  | a. Describe the spectrum of ductal plate malformation<br>b. How do you treat congenital hepatic fibrosis?<br>c. Enumerate associations of congenital hepatic fibrosis.  | 5+3+2 |
| 8.  | a. Differences in the pathophysiology of hepatic encephalopathy due to acute liver failure, acute and chronic liver failure and chronic liver disease.<br>b. Outline their management.  | 7+3   |
| 9.  | a. Micro-anatomy of Pancreatic Islets (with diagram)<br>b. Diagnostic approach for Pancreatic NET.<br>c. Treatment options for metastatic pancreatic NET.   | 4+3+3 |
| 10. | a. Anatomy of hepatic micro-circulation in advanced cirrhosis versus healthy liver.<br>b. What is the effect of Nitric Oxide (NO) on the hepatic micro-circulation?<br>c. Role of hepatic stellate cells in health and disease. | 4+3+3 |

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