

GASTROENTEROLOGY

PAPER-I

GASTRO/D/18/10/I

Time: 3 hours
Max. Marks:100

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. You do not have access to a nutritional specialist and have to advise diet plan to all your patients. Summarize nutritional advice and provide a dietary prescription for the following conditions: 5+5
 - a) An underweight, sarcopenic patient with Child C cirrhosis with recurrent episodes of hepatic encephalopathy.
 - b) An 80 kg, 165 cm patient with Child B cirrhosis, moderate ascites and no encephalopathy.
2. 3+3+4
 - a) What are endoscopic and histologic criteria for diagnosis of Barrett's esophagus?
 - b) Surveillance strategy for detection of adenocarcinoma in them.
 - c) Endoscopic and surgical methods, and current guidelines for management of Barrett's esophagus.
3. 6+4
 - a) What are the mechanisms of anti-microbial resistance? Discuss the principles of antibiotic stewardship.
 - b) Current treatment of H pylori in view of emerging drug resistance.
4. For your thesis, you have used patient information sheet and content forms. 5+5
 - a) Describe the principles of making the patient information sheet.
 - b) Describe steps and essentials for process of taking informed consent?

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5. You are asked to recommend measures to decrease the burden of liver disease in India. 3+3+4
a) What is known about the burden of liver disease in India?
b) How will you assess the burden?
c) What measures would you suggest to decrease this burden in India?
6. a) What is innate immune response? 2+3+5
b) What are the effector cells and receptors for innate immune response?
c) Describe the role of Toll-like receptors (TLR) in context of inflammatory bowel disease.
7. a) Methods for assessment of functional liver reserve. 5+5
b) How will you predict risk of postoperative liver failure in a patient with liver cirrhosis planned for colectomy?
8. a) Normal motility pattern in esophagus and abnormalities in achalasia. 4+3+3
b) Normal motility pattern in stomach and abnormalities in gastroparesis.
c) Normal motility in colon and abnormalities in colonic myopathy or neuropathy.
9. a) What is food allergy and what are most common food allergens? 3+2+5
b) How is it different from food intolerance?
c) How do you establish a diagnosis of food allergy?
10. a) Pathophysiology of absorption of water and electrolytes from the small and large intestine. 6+4
b) Mechanisms of action of prucalopride and lubiprostone.
