

GASTROENTEROLOGY

PAPER-I

Time: 3 hours
Max. Marks:100

GASTRO/J/19/10/I

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) Physiology of anti-reflux barriers. 3+4+3
b) Pathogenesis of GERD.
c) High resolution impedance manometry.
2. a) Epidemiology of Helicobacter pylori infection. 2+3+3+2
b) Pathogenesis of H. pylori.
c) Non-invasive diagnostic tests for H.pylori.
d) Clinical manifestations of H.pylori infection.
3. a) Celiac disease in India. 2+2+3+3
b) Non-Celiac gluten sensitivity.
c) Diagnostic tests for Celiac disease.
d) Refractory Celiac disease.
4. Describe the role of following in intestinal physiology: 4+3+3
a) Chloride channels
b) Pumps
c) Carriers
5. Achalasia Cardia: 3+4+3
a) Pathogenesis
b) Manometric evaluation
c) Complications
6. a) Assessment of Sarcopenia 3+3+4
b) Clinical evaluation of malnutrition.
c) Role of nutrition in inflammatory bowel disease (IBD).
7. Ulcerative colitis: 4+3+3
a) Aetio-pathogenesis
b) Severity grading
c) Genetic association

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| 8. | a) Enumerate important steps in writing a Research Project.
b) Tests for statistical significance. | 5+5 |
| 9. | a) Brain Gut Axis and its relevance in pathogenesis in Irritable Bowel Syndrome (IBS).
b) FODMAP Diet in IBS. | (3+4)+3 |
| 10. | a) Physiology of acid secretion.
b) Aetio-pathogenesis of peptic ulcer disease.
c) Endoscopic interventions in a bleeding peptic ulcer. | 4+3+3 |
