

GASTROENTEROLOGY

PAPER – I

GASTRO/D/16/10/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. a) Physiology of gastric acid secretion. 3+2+5
b) Enumerate the pathological conditions associated with high or low acid secretion.
c) Indications and importance of measuring acid output.
2. a) Name the gut neuropeptides. 3+3+4
b) Functions of serotonin.
c) GI peptides that regulate food intake and satiety.
3. a) Define constipation. 1+2+3+4
b) Rome IV criteria for functional constipation.
c) Clinical classification of functional constipation.
d) Tests for evaluation of constipation.
4. Methods of nutritional assessment: 2+2+3+3
a) History and physical examination.
b) Anthropometry.
c) Biochemical and immunological.
d) Calorie assessment.
5. A clinical researcher wants to compare the effect of a new drug with that of Vitamin E on improvement in serum ALT in patients with NASH. He also plans to investigate the factors that can predict improvement in liver functions by the new drug. 3+2+2+3
a) What is the kind of study that is being conducted?
b) Define the types of variables that the researcher will be analyzing.
c) What would be the ideal way to present and compare the data on improvement of ALT on a time scale?
d) Essential steps that would be required to identify independent predictors of improvement.
6. a) What is dumping syndrome? 2+(2+3+3)
b) Types, mechanism and management of dumping syndrome.

P.T.O.

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7. a) Definition of intestinal failure and short bowel syndrome. 2+3+5
b) Mechanisms of intestinal adaptation.
c) Intestinal transplantation: Indications and technique
8. a) Gut-brain axis in obesity. 3+3+4
b) Gut microbiota and obesity: Role in etiology and potential therapeutic target.
c) Endoscopic treatment of obesity.
9. a) Mechanisms of liver involvement in systemic diseases. 2.5x4
b) Liver abnormalities in connective tissue diseases.
c) Liver in pulmonary diseases.
d) Liver in hematological disorders.
10. a) Approach to a patient with presumed extra esophageal gastro 3+2+2+3
esophageal reflux disease (GERD).
b) Enumerate complications of GERD.
c) Safety of long term PPI therapy.
d) Emerging therapeutic options in GERD.
