



GASTROENTEROLOGY

PAPER – I

GASTRO/D/14/10/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.

1. Describe the staging system for, and techniques used for determining the stage of disease in patients with carcinoma stomach. 4+6
2. In relation to vitamin B₁₂, describe the following: 2+4+4
 - a) Dietary sources,
 - b) Mechanism of gastrointestinal absorption, and
 - c) Tests for its malabsorption.
3. Describe the following for achalasia cardia: 5+3+2
 - a) Pathogenesis,
 - b) Manometric alterations, and
 - c) Radiological findings.
4. Discuss the relationship of *Helicobacter pylori* infection with gastroesophageal reflux disease. 10
5. Compare and contrast the two main types of abdominal pain (visceral and somatic-parietal pains), paying particular attention to: 5+3+2
 - a) Type of fibers and neurological pathways involved in their transmission and perception,
 - b) Clinical characteristics of pain, and
 - c) Precipitating stimuli for each of these.
6. In relation to gastrointestinal immune system: 4+6
 - a) Draw a schematic diagram of the secretory immunoglobulin A molecule showing its various components, and
 - b) Write a short note on Peyer's patches.
7. Name the inherited syndromes associated with endocrine neoplasms of the pancreas. List the non-gastrointestinal clinical manifestations of each of these. 3+7

P.T.O.