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:
   a) Dietary sources,
   b) Mechanism of gastrointestinal absorption, and
   c) Tests for its malabsorption. 2+4+4

3. Describe the following for achalasia cardia:
   a) Pathogenesis,
   b) Manometric alterations, and
   c) Radiological findings. 5+3+2

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:
   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. 5+3+2

6. In relation to gastrointestinal immune system:
   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. 4+6

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.

POSSESSION / USE OF CELL PHONES OR ANY SUCH ELECTRONIC GADGETS IS NOT PERMITTED INSIDE THE EXAMINATION HALL.