## GASTROENTEROLOGY PAPER – I

Time : 3 hours

GASTRO/D/12/10/I

Max. Marks: 100

Attempt all questions in order. Each question carries 10 marks.

#### Write short notes on:

1.	Somatostatin: structure, sources, physiological actions and pharmacological uses.	10
2.	Premalignant conditions associated with gastric cancer.	10
3.	Effect of liver disease on procoagulant and anticoagulant pathways.	10
4.	Embryonic development of normal esophagus and developmental anomalies.	10
5.	Real-time Polymerase Chain Reaction (RT-PCR) for measurement of nucleic acids: Principles and application in relation to viral hepatitis.	10
6.	Hepatic circulation and blood flow: Special characteristics and determinants.	10
7.	Molecular mechanism underlying gastrointestinal stromal Tumors (GIST) and their relevance to target chemotherapy.	10
8.	Adverse effects of proton pump inhibitor therapy, particularly in relation to prolonged use.	10
9.	Describe the life cycle of agents that causes hydatid cyst of the liver.	10
10.	Pathophysiology of hepatorenal syndrome.	10

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### **GASTROENTEROLOGY** PAPER - II

Time : 3 hours Max. Marks: 100

GASTRO/D/12/10/II

Attempt all questions in order. Each question carries 10 marks.

#### Write

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# **GASTROENTEROLOGY**

#### PAPER - III

Time : 3 hours Max. Marks : 100 GASTRO/D/12/10/III

Attempt all questions in order. Each question carries 10 marks.

#### Write short notes on:

1.	Autoimmune pancreatitis: Pathogenesis, pathology and diagnostic criteria.	10
2.	Genome-wide association studies: principles, potential and pitfalls.	10
3.	Role of NOD2 / CARD15 gene mutations in the pathogenesis of Crohn's disease.	10
4.	What are micro RNAs? What is their role in gastro-esophageal and liver cancers?	3+7
5.	Impedance manometry: principles and applications.	10
6.	Interleukin-28B gene polymorphisms and their role in natural history and treatment of hepatitis C virus infection.	10
7.	Eosinophilic esophagitis: diagnosis and management.	10
8.	Hepatitis E vaccines: Efficacy, safety and current status.	10
9.	Role of gluten hypersensitivity in causation of irritable bowel syndrome.	10
10.	Discuss the case for and against introduction of hepatitis A vaccine as part of India's national infant immunization programme.	10

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