

D.M. DEGREE EXAMINATION, MARCH 1990.

(Higher Specialities)

Branch IV — Gastroenterology

BASIC SCIENCES AS APPLIED TO GASTROENTEROLOGY

Time : Three hours.

Answer ALL the questions.

1. Discuss the immunological mechanism of Liver injury.
 2. Describe the essential features of histopathology of Intestinal Tuberculosis, Crohn's Disease and non-specific ulcerative colitis.
 3. Write short notes on :
 - (a) Hepatitis virus C.
 - (b) Mechanism of gastroduodenal mucosal injury by non-steroidal anti-inflammatory drugs.
 - (c) Constituents and significance of Biliary Sludge in the Gall bladder.
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March-1991

D.M. DEGREE EXAMINATION, MARCH 1991

(Higher Specialities)

Branch IV — Gastroenterology

Paper — BASIC SCIENCES AS APPLIED TO
GASTROENTEROLOGY

Time Three hours.

Answer ALL the questions

1 Describe the essential features of the normal
enteric bacterial flora and their role in health and disease.

2 Discuss the normal blood supply of the gastro-
intestinal tract and the pathophysiology of ischemic bowel
disease

Write short notes on

- (a) Enteral nutrition.
- (b) Hepatitis virus E.
- (c) Noninvasive pancreatic function tests.
- (d) Fatty liver.
- (e) Physiology of gastric emptying.

D.M. DEGREE EXAMINATION, SEPTEMBER 1991.

Branch IV — Gastroenterology

BASIC SCIENCES AS APPLIED TO GASTROENTEROLOGY

Time : Three hours.

Maximum : 100 marks.

Answer ALL questions.

1. Discuss the normal physiology of bile secretion and the syndrome of cholestasis. (25 marks)
 2. Describe the immune system of the gastrointestinal tract and discuss primary lymphoma of the intestine. (25 marks)
 3. Write short notes on :
 - (a) Interdigestive migrating motor complex.
 - (b) Immunoprophylaxis of type B hepatitis.
 - (c) Hepatic granulomas.
 - (d) Viral diarrhoea.
 - (e) Prokinetic agents used in gastrointestinal diseases.(5×10=50 marks)
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September-1992

D.M. DEGREE EXAMINATION, SEPTEMBER 1992:

Branch IV — Gastroenterology

Paper I — BASIC SCIENCES AS APPLIED TO
GASTROENTEROLOGY

Time : Three hours.

Maximum : 100 marks.

Answer ALL questions.

1. Describe the physiological actions of various gut hormones. (25 marks)
2. Discuss the possible precursor lesions of gastric carcinoma. (25 marks)
3. Write short notes on :
 - (a) Metronidazole.
 - (b) Vibrio cholera.
 - (c) Bilirubin metabolism.
 - (d) Rectal biopsy.
 - (e) Prothrombin time in liver diseases. (5×10 = 50 marks)

November-1993

PR 5101

D.M. DEGREE EXAMINATION

(Higher Specialities)

Branch IV — Gastroenterology

(Old/New Regulations)

**Paper I — BASIC SCIENCES AS APPLIED TO
GASTROENTEROLOGY**

Time : Three hours.

Maximum : - 100 marks.

Answer ALL questions.

1. Describe the mechanism of bile secretion with special reference to biliary lipids. (25)

2. Describe the types of colonic motility and their relevance to Irritable Bowel Syndrome. (25)

3. Write short notes on :

(a) Diagnostic methods for Hepatitis C virus.

(b) TIPS.

(c) Nitric oxide in hepato-renal syndrome.

(d) Recent prokinetic drugs.

(e) 24 hour pH monitoring : methods and relevance.

(5 × 10 = 50)

D. M. DEGREE EXAMINATION

(Higher Specialities)

Branch IV GASTROENTEROLOGY

Old/New Regulations

Paper BASIC SCIENCES AS APPLIED TO
GASTROENTEROLOGY

Time : Three Hours Maximum Marks 100

Answer ALL Questions

- 1 Discuss the etiopathogenesis of diarrhoeal diseases.
(25)
2. Describe the hemodynamic alterations associated with cirrhosis of the liver, non-cirrhotic portal fibrosis, portal vein obstruction and inferior vena caval obstruction. (25)
3. Write short notes on :
 - a) Free radical scavengers
 - b) Gastric mucosal barrier
 - c) Hydrogen breath test
 - d) Cholestasis
 - 111
 - e) Indium neutrophil test in inflammatory bowel disease. (5 X 10 = 50)

April-1995

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D.M. DEGREE EXAMINATION.

(Higher Specialities)

Branch IV — Gastroenterology

(Old/New Regulations)

**Paper I — BASIC SCIENCES AS APPLIED TO
GASTROENTEROLOGY**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

**Discuss the classification and pathogenesis of intestinal
obstruction. (25)**

**Discuss the biochemical and pharmacological approach to
treatment of Gallstones. (25)**

Write short notes on : (5 × 10 = 50)

- (a) Refractory Duodenal ulcer.**
- (b) Role of calcium ion in hepatic injury.**
- (c) Discuss mechanisms of intra hepatic cholestasis.**
- (d) Discuss aetiology of persistent diarrhoea in children.**
- (e) Renal changes in chronic liver disease.**

November-1995

MB 110

D.M. DEGREE EXAMINATION

(Higher Specialities)

(Old/New Regulations)

Branch IV - GASTROENTEROLOGY

Paper I - BASIC SCIENCES AS APPLIED TO
GASTROENTEROLOGY

Time: Three hours Max. marks:100

Answer All Questions

1. Discuss "Oesophageal motility in health and disease". (25)
2. Discuss the mechanisms of gastroduodenal mucosal defense. (25)
3. Write short notes on:
 - (a) Stone protein
 - (b) Hepatotrophic factors
 - (c) B12 absorption
 - (d) Hepatitis B virus mutants
 - (e) Somatostatin (5x10=50)

D.M. DEGREE EXAMINATION**(Higher Specialities)****Branch IV - Gastroenterology****(Revised Regulation)****Paper I - BASIC SCIENCES APPLIED TO GASTROENTEROLOGY****Time: Three hours****Max. marks:100****Answer All Questions**

1. Discuss the impact of normal enteric flora on a healthy host. (25)
2. Discuss the anatomy of lower oesophageal sphincter and effect of various drugs on LES and changes in health and disease. (25)
3. Write short notes on:
 - (a) Colonic motility
 - (b) Gastrin - role in health and disease
 - (c) Cholera toxin - structure and mode of action
 - (d) Role of mucosal biopsy in the diagnosis of malabsorption syndrome
 - (e) Mucosal protective agents in peptic ulcer disease. (5x10=50)

D.M. DEGREE EXAMINATION
(Higher Specialities)

Branch IV - Gastroenterology
(Revised Regulations)

Paper I - BASIC SCIENCES APPLIED TO
GASTROENTEROLOGY

Time: Three hours

Max.marks:100

Answer All Questions

1. Describe the ultra structure of the hepatocyte and the mechanism of necrosis in viral hepatitis. (25)
2. Describe the blood supply of the colon. Discuss the pathological changes occurring in the colon due to obliteration of its blood supply. (25)
3. Write briefly on:
 - (a) Enterocyte
 - (b) Breath test in malabsorption
 - (c) Functions of gall bladder
 - (d) Pancreatic polypeptide
 - (e) Drugs in the management of pruritus of cholestasis. (5x10=50)

April-1998

SV 16

D.M. DEGREE EXAMINATION
(Higher Specialities)
Branch IV - Gastroenterology
(Revised Regulations)

Paper I - BASIC SCIENCES APPLIED TO THE
SPECIALITY

Time: Three hours

Max.marks:100

Answer All Questions

1. Describe the ultra structure of the enterocyte and discuss the newer modalities of investigations for the diagnosis of malabsorption. (25)
2. Discuss the factors controlling regeneration of liver. (25)
3. Write briefly on:
 - (a) Barrett's oesophagus
 - (b) Somatostatin
 - (c) Carcinoembryonic antigen
 - (d) Lithostatin
 - (e) Malt Lymphoma.

(5x10=50)

October-1998

[SM 013]

D.M. DEGREE EXAMINATION.

(Higher Specialities)

Branch IV — Gastroenterology

(Revised Regulations)

**Paper I — BASIC SCIENCES APPLIED TO THE
SPECIALITY**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss bilirubin metabolism and familial hyperbilirubinemia. (25)
2. Discuss blood circulation in intestines and diseases caused by vascular impairment. (25)
3. Write short notes on : (5 × 10 = 50)
 - (a) Epidermal growth factor
 - (b) Gastrointestinal function in elderly
 - (c) Cytokinins and Helicobacter Pylori
 - (d) Pancreatic polypeptide
 - (e) Oesophageal motility disorders.

April-2000

[KB 013]

Sub. Code : 1251

D.M. DEGREE EXAMINATION.

(Higher Specialities)

Branch IV — Gastroenterology

(Revised Regulations)

**Paper I — BASIC SCIENCES APPLIED TO THE
SPECIALITY**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss pathogenesis of ascites and renal dysfunction in cirrhosis. Describe effect of large volume paracentesis, spironolactone therapy and TIPS (transjugular intrahepatic porto-systemic shunt) on renal function. (25)
 2. Enumerate and discuss importance of various tests to identify pancreatic necrosis. (25)
 3. Write short notes on : (5 × 10 = 50)
 - (a) Breath tests for diagnosis of malabsorption
 - (b) Intestinal flora in intestinal diseases.
 - (c) Somatostatin.
 - (d) Hepatitis B virus mutants and variants.
 - (e) Virtual CT (computed tomographic) colonoscopy.
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October-2000

[KC 013]

Sub. Code : 1251

D.M. DEGREE EXAMINATION.

(Higher Specialities)

Branch IV — Gastroenterology

(Revised Regulations)

Paper I — BASIC SCIENCES APPLIED TO THE
SPECIALITY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss the hepatic microcirculation in normal persons and its alterations in cirrhosis of Liver. (25)
 2. Discuss the anatomy of Anorectal region and its various anomalies. (25)
 3. Write short notes on : (5 × 10 = 50)
 - (a) Halitosis
 - (b) Manometric criteria for Oesophageal motor disorder
 - (c) Viral Diarrhoea
 - (d) Natural history of Cholelithiasis
 - (e) Nonfunctional islet cell tumors.
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