

April-2001

[KD 198]

Sub. Code : 9000

M.S. DEGREE EXAMINATION

(Old/New/Revised Regulations)

Part I — Branch I — General Surgery

Paper I — APPLIED BASIC SCIENCES

Time : Three hours [Maximum : 180 marks

Answer each subject in a separate answer book

Answer any FOUR short notes in each subject

All questions carry equal marks.

(ANATOMY),

- (a) Epiploic foraman
- (b) Surgical relations of prostate
- (c) Tarsal Tunnel Syndrome
- (d) Clinical importance of Azygos vein
- (e) Surgical importance of Lymphatic Drainage of stomach.

(PHYSIOLOGY)

- 2 (a) Hormones regulating serum calcium level
(b) Thyroid function tests
(c) Gastrointestinal hormones
(d) Pain pathway
(e) Phases of cardiac cycle

(BIOCHEMISTRY)

- 3 (a) Alkaline Phosphatase
(b) Vitamin D Resistant rickets
(c) Paget's disease
(d) Antioxidants
(e) Plasma Proteins and Electrophoresis

(PHARMACOLOGY)

- 4 (a) Competitively blocking skeletal muscle relaxants used clinically
(b) Sclerosing Agents
(c) Drug treatment of Deep vein thrombosis
(d) Lansoprazole
(e) Pharmacological management of ulcerative colitis.

(PATHOLOGY)

- 5 (a) Cell mediated immunity
(b) Carcinoma colon
(c) Aneurysms
(d) Hepatocellular carcinoma
(e) Acute pancreatitis.

(MICROBIOLOGY)

- 6 (a) Anatomy of the bacterial cell
(b) Serological tests for the diagnosis of bacterial diseases
(c) Transfusion transmitted viral diseases
(d) Monoclonal Antibodies
(e) Mycetoma foot.

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Branch I — General Surgery

Part I

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Maximum : 180 marks

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(ANATOMY)

1. (a) Flat foot.
(b) Mid palmar space.
(c) Inguinal canal.
(d) Meckel's Diverticulum.
(e) Renal fascia.

(PHYSIOLOGY)

2. (a) Functions of Bile.
(b) Normal waves of E.C.G.
(c) Intrapleural Pressure.
(d) Renal function tests.
(e) Hypoxia.

(BIOCHEMISTRY)

3. (a) Hypercalcemia.
(b) High energy phosphates.
(c) Ketone bodies.
(d) Biotin.
(e) Lipoproteins.

(PATHOLOGY)

4. (a) Cold abscess.
(b) Healing of fracture.
(c) Surgical jaundice.
(d) Amyloid.
(e) Carcinoid tumor.

(PHARMACOLOGY)

5. (a) Co-trimoxazole.
(b) Povidone.
(c) Cyclophosphamide.
(d) Ondansetron.
(e) Dopamine.

(MICROBIOLOGY)

6. (a) Leptospirosis.
(b) Anaphylaxis.
(c) Fungi causing Mycetoma.
(d) Gas gangrene.
(e) Urinary tract infection.
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March-2002

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Branch I — General Surgery

Part I

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Time : Three hours

Maximum : 180 marks

Answer each subject in a separate Answer Book.

Answer any FOUR short notes in each subject.

All questions carry equal marks.

(ANATOMY)

1. (a) Thyroglossal cyst.
(b) Femoral Hernia.
(c) Duodenal recesses.
(d) Carpal tunnel syndrome.
(e) Cervical rib.

(PHYSIOLOGY)

2. (a) Sinus arrhythmia.
(b) Liver function tests.
(c) Chemoreceptors.
(d) Heart sounds.
(e) Secretion and actions of Renin.

(BIOCHEMISTRY)

- 3 (a) Blood glucose regulation
(b) Hyper uricaemia
(c) Tumour markers
(d) Fluid balance.
(e) Collagen.

(PATHOLOGY)

- 4 (a) Disseminated intra vascular coagulation
(b) Gall stones.
(c) Chronic venous congestion – Liver
(d) Classification of lymphomas.
(e) Granuloma

(PHARMACOLOGY)

- 5 (a) Zidovudine
(b) Neurolept Analgesia
(c) Fluoroquinolones
(d) Ceftriaxone
(e) Antiseptic dyes.

(MICROBIOLOGY)

- 6 (a) Post operative wound infections.
(b) Diphtheria vaccines
(c) Hydatid cyst.
(d) Antiviral agents
(e) Cerebral malaria

April-2003

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(All Regulations)

Part I — Branch I — General Surgery

Paper I — APPLIED BASIC SCIENCES

Time : Three hours

Maximum : 180 marks

Answer each subject in a separate Answer Book.

Answer any FOUR short notes in each Subject.

All questions carry equal marks.

(ANATOMY)

1. (a) Supports of rectum
- (b) Deep cervical fascia and its surgical importance
- (c) Pivot Joints
- (d) Pharyngeal Diverticulum
- (e) Varicose veins.

(PHYSIOLOGY)

2. (a) Sensory Receptors
(b) P.R. Interval
(c) Measurement of GFR
(d) Long term regulation of blood sugar
(e) Hormones of thyroid gland and their synthesis.

(BIOCHEMISTRY)

3. (a) Essential Fatty acids
(b) Hypokalemia
(c) Hurler's syndrome
(d) Cori cycle
(e) Confirmation test for Diabetes Mellitus.

(PHARMACOLOGY)

4. (a) Tinidazole
(b) Therapeutic uses of Calcium
(c) Losartan
(d) Vancomycin
(e) Drug therapy of Anaphylaxis.

(PATHOLOGY)

5. (a) Chemical mediators of inflammation
(b) Granulation Tissue
(c) Multiple endocrine Neoplasia
(d) Haemophilia
(e) Intestinal Polyps.

(MICROBIOLOGY)

6. (a) Rabies vaccines
(b) Hot Air oven
(c) Bacterial drug resistance
(d) Characteristics of Helicobacter Pylori
(e) Endotoxins.
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M.S. DEGREE EXAMINATION.

(All Regulations)

Part I — Branch I — General Surgery

Paper I — APPLIED BASIC SCIENCES

Time : Two hours

Maximum : 75 marks

One hour and forty five

Theory : 60 marks

minutes for Theory

MCQ : 15 marks

M.C.Q. : 15 minutes

M.C.Q. must be answered in a **SEPARATE** Answer Sheet provided as per instruction given on the first page of M.C.Q. Booklet.

Answer each subject in a **SEPARATE** Answer Book.

Answer any **FOUR** short notes in each Subject.

All questions carry equal marks.

SECTION A

(ANATOMY)

(4 × 5 = 20)

1. (a) Inguinal canal — Boundaries and contents.
(2½ + 2½)

- (b) Anterior relations of Kidney.
(Right 2½ + Left 2½)

- (c) Lymphatic drainage of Mammary gland. (5)

- (d) Blood supply of oesophagus.
(Arteries 3 + Venous-drainage 2)

- (e) Pretreacheal Layer of Deep cervical fascia. (5)

(PHYSIOLOGY)

(4 × 5 = 20)

2. (a) Hirschsprung's Disease.
(b) Thrombo Angitis Oblitrans [T.A.O.].
(c) Spinal shock.
(d) Liver function tests.
(e) Gastro-Intestinal-Hormones.

(BIOCHEMISTRY)

(4 × 5 = 20)

3. (a) Acute Intermittant porphyria.
(b) Insulin.
(c) Thyroid function tests.
(d) HDL cholesterol.
(e) Renal tubular acidosis.

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M.S. DEGREE EXAMINATION.

(All Regulations)

Part I — Branch I — General Surgery

Paper I — APPLIED BASIC SCIENCES

Time : Two hours Maximum : 75 marks
One hour and forty five Theory : 60 marks
minutes for Theory MCQ : 15 marks
M.C.Q. : 15 minutes

M.C.Q. must be answered in a **SEPARATE** Answer Sheet provided as per instruction given on the first page of M.C.Q. Booklet.

Answer each subject in a **SEPARATE** Answer Book.

Answer any **FOUR** short notes in each Subject.

All questions carry equal marks.

SECTION B

(PHARMACOLOGY)

(4 × 5 = 20)

1. (a) Cloxacillin.
(b) Diclofenac Sodium.

- (c) Benzodiazepines.
(d) Lignocaine.
(e) Pethidine.

(PATHOLOGY)

(4 × 5 = 20)

2. (a) Polyps of Large Intestine.
(b) Evolution and Pathogenesis of Gastric Carcinoma.
(c) Immunocytochemistry of Mesenchymal tumors.
(d) Types and Pathogenesis of calcification.
(e) Tumors of Thyroid.

(MICROBIOLOGY)

(4 × 5 = 20)

3. (a) Laboratory Diagnosis of Hydatidosis.
(b) Hepatitis B Vaccine.
(c) Pseudo Membranous Colitis.
(d) Post Exposure Prophylaxis of HIV infection.
(e) Sterilisation of surgical instruments.

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M.S. DEGREE EXAMINATION.

(All Regulations)

Part I — Branch I — General Surgery

Paper I — ALLIED CLINICAL SCIENCES
(APPLIED BASIC SCIENCES)

Time : Two hours

Maximum : 75 marks

Theory : One hour and
forty five minutes

Theory : 60 marks

M.C.Q. : Fifteen minutes

M.C.Q. : 15 marks

Answer each subject in a **SEPARATE** answer book.

Answer any **FOUR** short notes in each subject.

SECTION A

Answer **ALL** the questions.

ANATOMY :

(4 × 5 = 20)

- (a) Inguinal canal
- (b) Synovial sheaths of carpal flexor tendons
- (c) Omental bursa
- (d) Vermiform appendix
- (e) Femoral canal.

PHYSIOLOGY :

(4 × 5 = 20)

- (a) Micturition reflex
- (b) Formation of calculi
- (c) Responses of haemorrhage
- (d) G.F.R.
- (e) Pyramidal system.

BIOCHEMISTRY :

(4 × 5 = 20)

- (a) Oncogenes
- (b) Acute intermittent porphyria
- (c) Hyponatremia
- (d) Adhesion molecules
- (e) Acid phosphatase.

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M.S. DEGREE EXAMINATION.

(All Regulations)

Part I — Branch I — General Surgery

Paper I — ALLIED CLINICAL SCIENCES

(APPLIED BASIC SCIENCES)

Time : Two hours

Maximum : 75 marks

Theory : One hour and

Theory : 60 marks

forty five minutes

M.C.Q. : Fifteen minutes

M.C.Q. : 15 marks

SECTION B

Answer each subject in a **SEPARATE** Answer Book.

Answer any **FOUR** short notes in each subject.

All questions carry equal marks.

(PHARMACOLOGY)

- (a) Radioactive iodine (4 × 5 = 20)
- (b) Amikacin
- (c) Aluminium antacids
- (d) Immunomodulators
- (e) Protease inhibitors.

(PATHOLOGY)

- (a) Marjolin's ulcer (4 × 5 = 20)
- (b) Pathogenesis of inguinal hernia
- (c) Complications of burns
- (d) Polyps of gastro intestinal tract
- (e) Cancers of thyroid.

(MICROBIOLOGY)

- (a) Interleukins (4 × 5 = 20)
- (b) Injection control policy
- (c) HLA typing
- (d) Gas vapour sterilisation
- (e) Nosocomial injection.

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(All Regulations)

Part I — Branch I — General Surgery

Paper I — ALLIED CLINICAL SCIENCES

(APPLIED BASIC SCIENCES)

Time : Two hours

Maximum : 75 marks

Theory : One hour and

Theory : 60 marks

forty five minutes

M.C.Q. : Fifteen minutes

M.C.Q. : 15 marks

SECTION A

Answer each subject in a **SEPARATE** Answer Book.

Answer any **FOUR** Short Notes in each subject.

All questions carry equal marks.

(ANATOMY)

(a) Describe thyroid gland under the following headings :

- (i) Relations
- (ii) Coverings
- (iii) Blood supply and
- (iv) Lymphatic drainage.

(b) Lymphatic drainage, blood supply, development and peritoneal coverings of rectum and anal canal.

(c) Blood supply and development of pancreas.

(d) Formation and contents of rectus sheath.

(e) Great saphenous vein. (4 × 5 = 20)

(PHYSIOLOGY)

(a) Describe pathophysiology of peptic ulcer. (4 × 5 = 20)

(b) What is jaundice? Describe the different types of jaundice.

(c) What is normal intracranial tension? Name the conditions where it is affected.

(d) Management of intestinal obstruction in new born babies.

(e) Describe the various causes for formation of renal stones. How will you treat these cases?

(BIOCHEMISTRY)

(a) FTM (4 × 5 = 20)

(b) Vit. K - loading test

(c) Urea clearance test

(d) Enterogenous diarrhoea

(e) Pheochromocytoma.