

November-2001

[KE 101]

Sub. Code : 9000

M.D. DEGREE EXAMINATION.

(Old/New/Revised Regulations)

Part I — Branch I — General Medicine

Paper I — APPLIED BASIC SCIENCES

(Common to Branch I — General Medicine

Branch VII — Paediatric Medicine and

Branch XVI — Geriatric Medicine)

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) Formation and fate of neural tube
- (b) Anatomy and Histopathology of Adrenal gland
- (c) Pterygo-Palatine ganglion.
- (d) Foetal circulation.
- (e) Superior Mediastinum

(PHYSIOLOGY)

- 2 (a) Cushing's syndrome.
(b) Cytokines
(c) Factors affecting myocardial contractility
(d) Pancreatic enzymes.
(e) Hypocalcemic tetany

(BIOCHEMISTRY)

- 3 (a) Leukotrienes
(b) Thyroid function tests
(c) Glucagon
(d) Metabolic acidosis
(e) Composition of extra cellular fluid

(PHARMACOLOGY)

- 4 (a) Heparin.
(b) Calcium channel blockers
(c) Methotrexate
(d) Famotidine
(e) Ketorolac

(PATHOLOGY)

- 5 (a) Multiple Myeloma.
(b) Crohn's disease
(c) Budd-Chiari syndrome.
(d) Acute respiratory distress syndrome
(e) Chromosomal abnormality in Acute Leukemia.

(MICROBIOLOGY)

6. (a) Viral diarrhoea
(b) Infective endocarditis
(c) Candidiasis
(d) Laboratory diagnosis of AIDS
(e) Hydatid cyst

March-2002

[KG 101]

Sub. Code : 9000

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Common to Branch I — General Medicine,
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(ANATOMY)

- (a) Development of arch of Aorta.
- (b) Cervico-thoracic ganglion.
- (c) Anatomy and Histopathology of liver.
- (d) Arterial supply to Brain.
- (e) Nervous control of bladder.

(PHYSIOLOGY)

2. (a) Breath Holding.
- (b) Calcium Homeostasis.
- (c) REM – Rapid Eye Movement Sleep.
- (d) Prolactin.
- (e) Cytokines.

(BIOCHEMISTRY)

3. (a) Phenylketonuria.
- (b) Western Blot technique.
- (c) Prostaglandins.
- (d) Non-protein Nitrogenous Compounds.
- (e) Anion Gap.

(PATHOLOGY)

4. (a) Hodgkin's Disease.
- (b) Chronic Active Hepatitis.
- (c) Malabsorption Syndrome.
- (d) Hypothyroidism.
- (e) Renal Osteodystrophy.

(PHARMACOLOGY)

5. (a) Chloroquine.
- (b) Benzodiazepines.
- (c) Frusemide.
- (d) Radio active iodine.
- (e) Oral antidiabetic agents.

(MICROBIOLOGY)

6. (a) M.M.R. Vaccine.
- (b) Giardiasis.
- (c) Coxiella Burnetti.
- (d) Weil's disease.
- (e) Cultivation of M. leprae.

September-2002

KH 101]

Sub. Code : 9000

M.D. DEGREE EXAMINATION.

(All Regulations)

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**(Common to Branch I — General Medicine,
Branch VII — Paediatric Medicine and Branch XVI -
Geriatric Medicine)**

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) Anatomy and histopathology of thyroid gland.
- (b) Development of right atrium
- (c) Internal capsule, its blood supply and applied anatomy
- (d) Conduction system of heart and its blood supply
- (e) Inguinal canal.

(PHYSIOLOGY)

2. (a) Regulation of cardiac output
- (b) Indications for pulmonary function test
- (c) Neurogenic bladder
- (d) Pancreatic enzymes
- (e) Function of Platelets.

(BIOCHEMISTRY)

3. (a) Biological significance of fats
- (b) Classification of amino acids
- (c) Brief note on enzymes of clinical interest
- (d) Brief note on buffer systems of blood
- (e) Alkaptonuria.

(PHARMACOLOGY)

4. (a) Loop diuretics
- (b) Vasodilators in congestive cardiac failure
- (c) Treatment plan in drug resistant tuberculosis
- (d) Selective beta blockers
- (e) Treatment of Digitoxicity.

(PATHOLOGY)

5. (a) Pancoast tumour
- (b) Sarcoidosis
- (c) Von-Willibrand Disease
- (d) Chromosomal abnormality in Acute Leukemia
- (e) Indian childhood cirrhosis.

(MICROBIOLOGY)

6. (a) Infantile diarrhoea
- (b) Laboratory diagnosis of AIDS
- (c) Leptospirosis
- (d) Role of viruses in Rheumatic heart disease
- (e) Polio prevention Programme.

[KI 101]

Sub. Code : 9000

(PHYSIOLOGY)

M.D. DEGREE EXAMINATION.

(All Regulations)

Part I — Branch I — General Medicine

Paper I — APPLIED BASIC SCIENCES

(Common to Branch I — General Medicine,
Branch VII — Paediatric Medicine and Branch XVI —
Geriatric Medicine)

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) Nuclear masses of thalamus
- (b) Porto-caval anastomoses and its clinical importance
- (c) Nerve supply of urinary bladder
- (d) Muscles of respiration
- (e) Vascular segments of liver

2. (a) Prostaglandines
- (b) Physiology of Ejaculation
- (c) Cytometrogram
- (d) Pacemakers of the heart
- (e) Mechanism of temperature regulation.

(BIOCHEMISTRY)

3. (a) Balanced diet for adult man (Vegetarian)
- (b) Metabolic actions of parathyroid hormone
- (c) Reducing substances other than glucose
- (d) Renal function test
- (e) Vitamin K.

(PHARMACOLOGY)

4. (a) Treatment of accelerated hypertension
(b) Drug therapy in pulmonary hypertension
(c) Recent H₂ receptor antagonists
(d) Treatment of methyl alcohol poisoning
(e) Choice of anaesthetic agents in coronary patients.

(PATHOLOGY)

5. (a) Non-Hodgkin's Lymphoma
(b) Haemophilia
(c) Pathological calcification
(d) Retinal vascular changes in diabetes mellitus
(e) Pathology of emphysema in a non-smoker.

(MICROBIOLOGY)

- (a) Pasteurization
(b) Anaphylactic reaction
(c) Role of microbiologist in drug resistant infective endocarditis
(d) Aetiology of pyelonephritis
(e) Atypical mycobacteria.
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[KJ 101]

Sub. Code : 9000

M.D. DEGREE EXAMINATION.

(All Regulations)

Part I — Branch I — General Medicine

Paper I — APPLIED BASIC SCIENCES

(Common to Branch I — General Medicine, Branch VII
— Paediatric Medicine and Branch XVI
Geriatric Medicine)

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

M.C.Q. must be answered **SEPARATELY** on the
Answer Book provided as per instructions 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) Beta-lactamase inhibitors.
- (b) Digoxin.
- (c) Methotrexate.

(d) Phenobarbitone.

(e) Heparin.

(PATHOLOGY)

(4 × 5 = 20)

2. (a) Acute Nephritic Syndrome.
- (b) Inflammatory Bowel Disease.
- (c) Cardiomyopathy.
- (d) Legionner's Pneummonia.
- (e) Leukemoid Reaction.

(MICROBIOLOGY)

(4 × 5 = 20)

3. (a) Acute HIV seroconversion illness.
- (b) Cellular immuno deficiency diseases.
- (c) Post streptococcal sequelae.
- (d) Multi drug resistant salmonellae.
- (e) Laboratory diagnosis of leptospirosis.

[KJ 101]

Sub. Code : 9000

M.D. DEGREE EXAMINATION.

(All Regulations)

Part I — Branch I — General Medicine

Paper I — APPLIED BASIC SCIENCES

Common to Branch I — General Medicine, Branch VII
— Paediatric Medicine and Branch XVI
Geriatric Medicine)

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

M.C.Q. must be answered **SEPARATELY** on the
Answer Book provided as per instructions 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)

Blood supply of spinal cord.

Development of Inter Atrial Septum.

Structure of supra renal gland.

(d) Bronchopulmonary segments and their
clinical significance.

(e) Median nerve in the hand.

(PHYSIOLOGY)

(4 × 5 = 20)

2. (a) Somato statin.
(b) Atrial natri uretic factor.
(c) Renal failure indices.
(d) Interferons.
(e) Purpura.

(BIOCHEMISTRY)

(4 × 5 = 20)

3. (a) Prostaglandins
(b) Bile Pigments
(c) Glycolysis
(d) Acid Load Test
(e) Ketone Bodies.

August-2004

[KL 101]

Sub. Code : 9000

M.D. DEGREE EXAMINATION.

(All Regulations)

Part I — Branch I — General Medicine

Paper I — ALLIED CLINICAL SCIENCES
(APPLIED BASIC SCIENCES)

(Common to Branch I — General Medicine,
Branch VII — Paediatric Medicine and
Branch XVI — Geriatric Medicine)

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.

All questions carry equal marks.

Answer **ALL** questions.

SECTION A

ANATOMY

(4 × 5 = 20)

- (a) Base of Heart.
- (b) Blood supply of spinal cord.
- (c) Histology of liver.
- (d) Bronchopulmonary segments.
- (e) Cavernous sinus.

PHYSIOLOGY

(4 × 5 = 20)

- (a) Thyroid function tests.
- (b) Temperature regulating mechanisms.
- (c) Myocardial contractility.
- (d) Gastric muscosal barrier.
- (e) Functions of cerebellum.

BIOCHEMISTRY

(4 × 5 = 20)

- (a) Inhibitors of Na⁺ - K⁺ ATPase.
- (b) Apoptosis.
- (c) Cholesterol turnover.
- (d) Genetic code.
- (e) Lipoproteins.

March-2006

[KO 101]

Sub. Code : 9000

M.D. DEGREE EXAMINATION.

(All Regulations)

Part I — Branch I — General Medicine

Paper I — ALLIED CLINICAL SCIENCES

(APPLIED BASIC SCIENCES)

(Common to Branch I — General Medicine,
Branch VII — Paediatric Medicine and
Branch XVI — Geriatric Medicine)

Time : Two hours

Maximum : 75 marks

Theory : One hours and
forty five minutes

Theory : 60 marks

M.C.Q. : Fifteen minutes

M.C.Q. : 15 marks

SECTION B

Answer each subject in SEPERATE Answer Book.

Answer any FOUR Short Notes in each subject.

All questions carry equal marks.

IV. (Pathology)

1. Lacunar infarcts.
2. Vasculitis.
3. Tumour markers.
4. Apoptosis.
5. Non alcoholic hepatic steotosis.

V. (Microbiology)

1. Uses of E.coli.
2. Polymerase Chain Reaction (PCR) in clinical medicine
3. Serological tests of CSF.
4. Serological tests of tuberculosis.
5. Human diploid cell vaccine.

VI. (Pharmacology)

1. Chemotherapy of multiple myeloma.
2. Disease modifying Anti Rheumatic Drugs (DMARDS).
3. Stents.
4. Uses of Bromocriptine.
5. Aspirin resistance.

March-2007

[KQ 101]

Sub. Code : 9000

M.D. DEGREE EXAMINATION.

(All Regulations)

Part I — Branch I — General Medicine

(Candidates admitted from 1988–89 onwards
and upto 2003)

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

SECTION A

Answer each Subject in a SEPARATE Answer Book.

Answer any FOUR Short Notes in each Subject.

All questions carry equal marks.

(ANATOMY)

(4 × 5 = 20)

1. (a) Describe the relations and blood supply of thyroid gland.

(b) Describe the relations, lobes and blood supply of prostate.

(c) Describe the fibre composition and blood supply of internal capsule.

(d) Explain porto caval anastomosis.

(e) Describe the bronchopulmonary segments and its applied anatomy.

(PHYSIOLOGY)

(4 × 5 = 20)

2. (a) Role of Reticular Activating System in EEG.

(b) Hemodynamics in Patent Ductus Arteriosus after birth.

(c) Indicators of obstructive lung disorders.

(d) Role of kidney in K⁺ homeostasis.

(e) Physiological basis of polyphagia, polydipsia and polyuria.

(BIOCHEMISTRY)

(4 × 5 = 20)

3. (a) Unconjugated hyperbilirubinemia.

(b) Isoenzymes of clinical importance.

(c) Glycated haemoglobin.

(d) Frederickson's classification of hyperlipoproteinemias.

(e) Biochemical importance of homocysteine.

March-2007

[KQ 101]

Sub. Code : 9000

(PATHOLOGY)

(4 × 5 = 20)

M.D. DEGREE EXAMINATION.

(All Regulations)

Part I — Branch I — General Medicine

(Candidates admitted from 1988–89 onwards
and upto 2003)

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

SECTION B

Answer each Subject in a SEPARATE Answer Book.

Answer any FOUR Short Notes in each Subject.

All questions carry equal marks.

(PHARMACOLOGY)

(4 × 5 = 20)

1. (a) Toxicity of Digoxin.
- (b) Current status of β -Blockers in CCF.
- (c) Role of GABA analogues in epilepsy.
- (d) Indapamide.
- (e) Recent drugs in Parkinsonism.

2. (a) Lab diagnosis of tuberculous meningitis.
- (b) Reynaud's phenomenon.
- (c) Pathology of membranoproliferative (mesangiocapillary) glomerulonephritis.
- (d) Pathogenesis of Miliary tuberculosis.
- (e) Pathology of Kaplan syndrome.

(MICROBIOLOGY)

(4 × 5 = 20)

3. (a) Toxic shock syndrome.
- (b) Wool Sorters disease.
- (c) Nagler's reaction.
- (d) Window period.
- (e) Subacute sclerosing pan encephalitis.

MARCH 2008**[KS 101]****Sub. Code : 9000**

M.D. DEGREE EXAMINATION.

Branch I — General Medicine

(Candidates admitted upto 2003–04 onwards)

Part I

ALLIED CLINICAL SCIENCES

Paper I — APPLIED BASIC SCIENCES

Q.P. Code : 209000

Time : Three hours

Maximum : 100 marks

ANATOMY (Answer any FOUR questions)

(4 × 5 = 20)

1. (a) Blood supply of Spinal Cord.
- (b) Facial Nerve
- (c) Pituitary Gland
- (d) Portal Circulation
- (e) Bowman's Capsule.

PHYSIOLOGY (Answer any FOUR questions)

(4 × 5 = 20)

2. (a) Pulmonary function tests
- (b) Measurement of Cardiac output
- (c) Iron Metabolism
- (d) Temperature regulation
- (e) Physiology of consciousness.

BIOCHEMISTRY (Answer any THREE questions)

(3 × 5 = 15)

3. (a) Immunoglobulins
- (b) Jaundice
- (c) Oral Glucose Tolerance Test
- (d) Hyperlipidemia.

PHARMACOLOGY (Answer any THREE questions)

(3 × 5 = 15)

4. (a) Newer Insulins
- (b) Anti amoebic drugs
- (c) Drug addiction
- (d) Antimitotics.

MICROBIOLOGY (Answer any THREE questions)

(3 × 5 = 15)

5. (a) Leishmaniasis
- (b) Atypical Mycobacteria
- (c) Filariasis
- (d) Syphilis.

PATHOLOGY (Answer any THREE questions)

(3 × 5 = 15)

6. (a) Non-Hodgkin's Lymphoma
- (b) Acute Myeloid Leukemia.
- (c) Cirrhosis of Liver
- (d) Small cell lung cancer.