[KD 216] APRIL 2001 Sub. Code : 9000

M.S. DEGREE EXAMINATION.

(New/Revised Regulations)

Part I — Branch IV — E.N.T.

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) Mastoid process.

(b) Medial wall of nasal cavity.

(c) Microscopic Anatomy and Development of Tonsil.

(d) Broncho Pulmonary segments of right lung.

(e) Petrous part of facial nerve.

APRIL 2001

(PHYSIOLOGY)

2. (a) Factors preventing coagulation of blood in the body.

(b) Olfactory pathway.

(c) Theories of hearing.

(d) Neural regulation of respiration.

(e) Action potentials in auditory nerve fibres.

(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) Ciprofloxacin

(d) Pharmacological management of chronic sinusitis.

(e) Selective beta blockers.

(PATHOLOGY)

5. (a) Cell mediated immunity.

(b) Cystic Hygroma.

(c) Cancrum Oris.

(d) Sjogren's syndrome.

(e) Gumma.

(MICROBIOLOGY)

6. (a) Anatomy of the bacterial cell.

(b) Serological tests for the diagnosis of bacterial diseases.

(c) Transfusion transmitted viral diseases.

(d) Anaerobic agents of osteomyelitis.

(e) Diphtheroids.

NOVEMBER 2001

[KE 216] Sub. Code : 9000

M.S. DEGREE EXAMINATION.

(New/Revised Regulations)

Branch IV — E.N.T.

Part I

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) Cavernous sinus communications

(b) Piriform Fossa.

(c) Vocal cord.

(d) Cricoid cartilage.

(e) Auditory tube.

(PHYSIOLOGY)

2 (a) Haldane's effect.

(b) Mechanism of sound localization.

(c) Osmotic diuresis.

(d) Perilymph.

(e) Counter current mechanism.

NOVEMBER 2001

(BIOCHEMISTRY)

3 (a) Lactic Acidosis

(b) Gene therapy

(c) Calcitriol

(d) Obstructive jaundice

(e) T_3 and Reverse T_3

(PATHOLOGY)

4 (a) Branchial cyst

(b) Rhinoscleroma

(c) Acoustic Neuroma

(d) Bleeding time and clotting time

(e) Biological carcinogens

(PHARMACOLOGY)

(a) Nasal decongestants

(b) Methotrexate

(c) Adverse effects and uses of corticosteroids in Otolaryngology.

(d) Gentamycin

(e) Lignocaine

(MICROBIOLOGY)

6 (a) Actinomyces

(b) Toxoids and their uses

(c) Oral thrush

(d) Coxsackievirus

(e) Pathogenic lesions produced by streptococci

[KG 216] MARCH 2002 Sub. Code : 9000

M.S. DEGREE EXAMINATION.

(New/Revised Regulations)

Branch IV — E.N.T.

Part I

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) External acoustic meatus.
   (b) Cleft palate.
   (c) Maxillary air sinus.
   (d) Ear Ossicles.
   (e) Circle of Willis.

(PHYSIOLOGY)

2. (a) Tympanic reflex.
   (b) Tubular reabsorption of sodium.
   (c) Pharyngeal stage of deglutition.
   (d) Extrinsic pathway of coagulation.
   (e) Auditory association areas.

(BIOCHEMISTRY)

3. (a) Significance of TCA cycle.

(b) Oxidation of fatty acids.

(c) Von Gierke's disease.

(d) Cyclic AMP.

(e) Cytochrome P 450.

(PATHOLOGY)

4. (a) Gas gangrene.

(b) Primary complex.

(c) Hutchinson's Triad.

(d) Singer's Nodule.

(e) Warthin's tumour.

(PHARMACOLOGY)

5. (a) Aminoglycosidic antibiotics.

(b) Ceftriaxone.

(c) Ketorolac.

(d) Long acting cortico steroids.

(e) Furosemide.

(MICROBIOLOGY)

6. (a) Classification of streptococci.

(b) Fusobacterium.

(c) Passive immunity.

(d) Metachromatic granules.

(e) Various methods of drug resistance.

SEPTEMBER 2002

[KH 216] **Sub. Code : 9000**

M.S. DEGREE EXAMINATION.

(All Regulations)

Part I — Branch IV — E.N.T.

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) Sigmoid sinus

(b) Mucous membrane of Nasal cavity

(c) Microscopic structure of Trachea

(d) Adenoids

(e) Palatine Tonsil.

(PHYSIOLOGY)

2 (a) Bohr effect

(b) Olfactory pathway

(c) Organ of Corti

(d) Counter current mechanism

(e) Vital capacity.

SEPTEMBER 2002

(BIOCHEMISTRY)

3 (a) Anion gap

(b) Chloride shift

(c) Phenyl Ketonuria

(d) Obstructive Jaundice

(e) Role of kidney in pH regulation

(PHARMACOLOGY)

4. (a) Topical decongestants

(b) Methotrexate

(c) H_1 receptor antagonists

(d) Drug induced ototoxicity

(e) Quinolones

(PATHOLOGY)

5 (a) Actinomycosis

(b) Complements in inflammation

(c) Chemoductoma

(d) Callus

(e) Angiofibroma

(MICROBIOLOGY)

6 (a) Active Immunity

(b) Coagulase test of Staphylococcus

(c) Clinical infection of coxsackie viru

(d) Bacterial toxoid and its uses

(e) Anaerobic Media

APRIL 2003

[KI 216] Sub. Code : 9000

M.S. DEGREE EXAMINATION.

(All Regulations)

Part I — Branch IV — E.N.T.

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) Right Principal Bronchi

(b) Arytendid cartilage

(c) External Acoustic Meatus

(d) Petrous portion of temporal bone

(e) Recurrent Laryngeal Nerve.

(PHYSIOLOGY)

2. (a) Water Diueresis

(b) Cochlear Microphonics

(c) Physiological basis of tests for hearing

(d) Acidification of Urine

(e) Functions of Middle ear.

APRIL 2003

(BIOCHEMISTRY)

3. (a) Biochemical changes after tracheostomy
   (b) Regulation of Blood sugar
   (c) Proteinurias
   (d) Significance of TCA cycle
   (e) Gene Therapy.

(PHARMACOLOGY)

4. (a) Local anaesthetics in ENT practice
   (b) Hyoscine
   (c) Cisplatin
   (d) Side effect of penicillins
   (e) Newer antifungal drugs.

(PATHOLOGY)

5. (a) Verrucous Carcinoma
   (b) Acute otitis media and mastoiditis
   (c) Reflex oesophagitis
   (d) Granulation tissue
   (e) Vascular Tumors of Nasal cavity.

(MICROBIOLOGY)

6. (a) Metachromatic granules
   (b) Active Immunization of Diphtheria
   (c) Actinomyces
   (d) Bile solubility test
   (e) Aerobia streptococci of oral cavity.

OCTOBER 2003

[KJ 216] **Sub. Code : 9000**

M.S. DEGREE EXAMINATION.

(All Regulations)

Part I — Branch IV — E.N.T.

Paper I — APPLIED BASIC SCIENCES

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

Maximum : 75 marks
Theory : 60 marks
M.C.Q. : 15 marks

M.C.Q. must be answered in a **SEPARATE** Answer Sheet provided as per the 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)

1. (a) Nerve supply of Tympanic Membrane.

(b) Ethmoidal Airsinus – Situation, Meatus of drainage and applied anatomy.

(c) Muscles for closure of Laryngeal/Inlet.

(d) Crico pharyngeus – Attachment, nerve supply and action.

(e) Structure of the tonsil.

(PHYSIOLOGY)

(4 × 5 = 20)

2. (a) Theories of hearing.

(b) Organ of corti.

(c) Microcochlear potentials.

(d) Ossicles and functions of the middle ear.

(e) Deglutition.

(BIOCHEMISTRY)

(4 × 5 = 20)

3. (a) Blood buffers.

(b) CSF chemistry.

(c) Labrynthine fluid – chemistry.

(d) Metabolic acidosis.

(e) Respiratory alkalosis.

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[KK 216] APRIL 2004 Sub. Code : 9000

M.S. DEGREE EXAMINATION.

(All Regulations)

Part I — Branch IV — E.N.T.

Paper I — 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)

1. (a) Development and pneumatisation of mastoid process.

(b) Little's area.

(c) Larynx of an infant.

(d) Pharyngeal Tonsil.

(e) Maxillary sinus. (4 × 5 = 20)

(PHYSIOLOGY)

2. (a) Theories of Hearing.

(b) Physiological functions of semicircular canals.

(c) Deglutition.

(d) Blood clotting mechanism.

(e) Physiology of smell. (4 × 5 = 20)

(BIOCHEMISTRY)

3. (a) Role of kidney in regulating pH of blood.

(b) Composition of C.S.F.

(c) Immunoglobulins.

(d) Anion gap.

(e) Synthesis and functions of albumin. (4 × 5 = 20)

AUGUST 2004

[KL 216] **Sub. Code : 9000**

M.S. DEGREE EXAMINATION.

(All Regulations)

Part I — Branch IV — E.N.T.

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.

All questions carry equal marks.

SECTION B

PATHOLOGY : (4 × 5 = 20)

(a) Necrosis

(b) Wegener's granulomatosis

(c) Angiofibroma

(d) Branchial cyst

(e) Cholesteatoma.

PHARMACOLOGY : (4 × 5 = 20)

(a) Xytometazoline

(b) Lignocaine

(c) Hydrocortisone

(d) Gentamicin

(e) Diclofenac sodium

MICROBIOLOGY : (4 × 5 = 20)

(a) Rhinosporidiosis

(b) Enterococci

(c) Fusospirochetosis

(d) Coxsackie virus

(e) Laboratory diagnosis of pneumococcal pneumonia.

FEBRUARY 2005

[KM 216] **Sub. Code : 9000**

M.S. DEGREE EXAMINATION.

(All Regulations)

Part I — Branch IV — E.N.T.

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)

(a) Mediastinum
(b) Motor and sensory innervation of larynx
(c) Microscopic anatomy of palatine tonsil
(d) Intrapetrous course of facial nerve
(e) Cavernous sinus.

(PHYSIOLOGY)

(4 × 5 = 20)

(a) Intrinsic mechanism of coagulation
(b) Pathway of smell sensation
(c) Otolith organs
(d) Theories of hearing
(e) Physiology of deglutition.

(BIOCHEMISTRY)

(4 × 5 = 20)

(a) Enumerate the functions of C.S.F.
(b) Metabolic acidosis
(c) Role of Kidney in regulating pH of blood
(d) Biochemical findings in respiratory acidosis
(e) Give normal values (levels in blood/serum) of the followings :
  (i) Sodium
  (ii) Potassium
  (iii) Uric acid
  (iv) Urea
  (v) HDL - cholesterol.

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