

October-1990

143

M.D. DEGREE EXAMINATION, OCTOBER 1990.

Branch I — General Medicine

Part I

APPLIED BASIC SCIENCES

(Common to Branch VII — Paediatric Medicine —  
Part I — Paper I)

Time : Three hours.

All questions carry equal marks.

SECTION A — ANATOMY

Answer any TWO questions only.

1. Describe the structures in the mediastinum at the level of the 4th Thoracic Vertebra (at the lower border of the manubrium sterni). Discuss briefly the clinical significance of the mediastinum.
2. Trace the pathway of the facial nerve and discuss the clinical significance of different levels of lesions.
3. Describe the brachial plexus. Discuss briefly its involvement in diseases.

SECTION B — PHYSIOLOGY

Answer any ONE question only.

4. Describe glomerular filtration. Discuss the changes that occur in diabetes mellitus.
5. Write briefly on:
  - (a) The role of lymphocytes in the body.
  - (b) Stretch reflex.

SECTION C — BIOCHEMISTRY

Answer any ONE question only.

6. Describe briefly the biochemistry and mechanism of action of thiamine and the tests carried out in patients with thiamine deficiency in clinical practice.
7. Write briefly on:
  - (a) Glycosylated hemoglobin.
  - (b) Native Deoxyribonucleic acid

SECTION D — PATHOLOGY

Answer any ONE question only

8. Describe the pathogenesis of bronchial asthma.
9. Describe briefly:
  - (a) Null cell acute lymphocytic Leukemia.
  - (b) Multiple endocrine neoplasia.

SECTION E — MICROBIOLOGY

Answer any ONE question only.

10. Classify retroviruses and discuss their role in malignancy.
11. Write notes on:
  - (a) Monoclonal antibody.
  - (b) Amoebic serology.
  - (c) Clostridium difficile.

SECTION F — PHARMACOLOGY

Answer any ONE question only.

12. Describe briefly the various mechanisms of adverse drug reactions with examples.
13. Write briefly on:
  - (a) Quinolones: their mode of action and therapeutic uses.
  - (b) Streptokinase.

March-1991

247

M.D. DEGREE EXAMINATION, MARCH 1991.

Branch I — General Medicine

Part I

APPLIED BASIC SCIENCES

(Common to Branch VII — Paediatric Medicine)

Time : Three hours.

SECTION A — (ANATOMY)

Answer any TWO of the following.

1. Describe the functional anatomy of the nephron. Outline the non-excretory functions of the kidney.
2. Describe the anatomy of the tract of the spinal cord carrying the proprioceptive impulses. Mention the clinical states that affect this tract.
3. Describe the anatomy of the conducting system of the heart. Discuss the role of cardiac catheterisation as a diagnostic tool.

SECTION B — (PHYSIOLOGY)

Answer any ONE question.

4. Describe the cardio-pulmonary changes during muscular exercise.
5. Write notes on :
  - (a) Cyanosis.
  - (b) Reticular formation.

March-1991

SECTION C — (BIOCHEMISTRY)

Answer any ONE question.

6. Describe the absorption, storage and metabolism of copper.
7. Write short notes on :
  - (a) Metabolic acidosis.
  - (b) Proinsulin.

SECTION D — PATHOLOGY

Answer any ONE question.

8. Discuss the recent advances in etiopathogenesis and pathology of bronchiectasis.
9. Write notes on :
  - (a) Carcinoid tumour.
  - (b) Tubercloid leprosy.

SECTION E — (MICROBIOLOGY)

Answer any ONE question.

10. Describe the immune system in the human body
11. Write notes on :
  - (a) Recombinant DNA.
  - (b) Viral diarrhoea.
  - (c) Laboratory diagnosis of Kala-azar.

SECTION F — (PHARMACOLOGY)

Answer any ONE question.

12. Classify antiepileptic drugs. Describe drugs used in petitmal epilepsy and their adverse effects.
13. Write notes on :
  - (a) Prostacycline.
  - (b) H<sub>1</sub> receptor antagonists.

March-1991

247 A

M.D. DEGREE EXAMINATION, MARCH 1991

(New Regulations)

Branch I — General Medicine

Part I

APPLIED BASIC SCIENCES

(Common to Branch VII — Paediatric Medicine)

Time : One and a half hours      Maximum : 90 marks

SECTION B

Answer ALL questions.

Write short notes on :

Section I — ANATOMY

1. Describe the structure of nephron.
2. Describe the circle of Willis.
3. Describe the blood supply of heart.  
(3 × 5 = 15 marks)

Section II — PHYSIOLOGY

1. Mass reflex.
2. Pancytopenia.
3. Calcitonin.  
(3 × 5 = 15 marks)

Section III — BIOCHEMISTRY

1. Hyperkalemia.
2. Lactic acidosis.
3. Alkaline phosphatase.  
(3 × 5 = 15 marks)

Section IV — PHARMACOLOGY

- 1 Human insulin
2. Gold therapy
3. Treatment of chloroquin resistant malaria.  
(3 × 5 = 15 marks)

Section V — PATHOLOGY

1. Minimal lesion glomerulonephritis.
2. Alfafo protein.
3. LE cell phenomenon.  
(3 × 5 = 15 marks)

Section VI — MICROBIOLOGY

- 1 Widal reaction.
  2. Giardiasis.
  3. Shigellosis.  
(3 × 5 = 15 marks)
-

September-1991

247

M.D. DEGREE EXAMINATION, SEPTEMBER 1991.

Branch I — General Medicine

Part I

APPLIED BASIC SCIENCES

Time : Three hours.

Each section should be answered in separate answer books.

SECTION A — ANATOMY

Answer any TWO questions.

1. Describe the boundaries and tracts of internal capsule including its blood supply.
2. Write the anatomy of conduction system. Describe arrhythmias of S.A. node.
3. Describe bronchopulmonary segments. Add a note on cough reflex.

SECTION B — PHYSIOLOGY

Answer any ONE question.

4. Write the physiology of sleep. What are the sleep disorders?
5. Write notes on :
  - (a) G.I.T. hormones.
  - (b) Renin-Angiotensin system.

SECTION C — BIOCHEMISTRY

Answer any ONE question

6. Describe the formation and fate of ketone bodies.
7. Write briefly on :
  - (a) Lipotropic factors.
  - (b) Galactosemia.

SECTION D — PATHOLOGY

Answer any ONE question.

8. Classify purpuras. Describe clinical features and laboratory diagnosis of idiopathic thrombocytopenic purpura.
9. Write briefly on :
  - (a) Kaposi's sarcoma.
  - (b) L.E. cell phenomenon.

SECTION E — MICROBIOLOGY

Answer any ONE question.

10. Discuss the blood parasites of man. Add a note on the laboratory diagnosis of kala-azar.
11. Write notes on :
  - (a) AIDS.
  - (b) Lymphokines.
  - (c) Rabies vaccines for human use.

SECTION F — PHARMACOLOGY

Answer any ONE question.

12. What are cardiac glycosides? Describe the mechanism of action, uses and adverse effects of digoxin.
13. Write briefly on :
  - (a) Zidovudine.
  - (b) Cyclosporine.
  - (c) Glycerol.

March-1992

[ 2 4 7 ]

M.D. DEGREE EXAMINATION, MARCH 1992.

Branch I — Part I

APPLIED BASIC MEDICAL SCIENCES

Time : Three hours.

Maximum : 100 marks.

ANATOMY

1. Describe the Broncho Pulmonary Segments with diagrams. Discuss their clinical importance.
2. (a) Describe the Brachial Plexus with suitable diagrams. Discuss Klumpke's Palsy.

Or

- (b) Describe the Mitral Apparatus and discuss briefly the Abnormalities of Mitral Apparatus.

PHYSIOLOGY

3. (a) Describe briefly the Physiology of Bile Pigment Metabolism.

Discuss the clinical situations of unconjugated Hyperbilirubinaemia.

Or

- (b) Discuss the Physiological response to Chronic Hypoxia.



BIOCHEMISTRY

4. (a) Discuss the Biochemistry of Diabetic Keto Acidosis and Lactic Acidosis.

Or

(b) Describe the management of Dehydration due to Diarrhoea and vomiting in an obese child aged five years.

PHARMACOLOGY

5. (a) Discuss the current trend in the drug treatment of acid Peptic disease.

Or

(b) Write an account of the management of acute Lymphoblastic Leukaemia.

PATHOLOGY

6. (a) Discuss the role of Peripheral Smear Study in a young male with fever of 3 weeks duration.

Or

(b) Discuss the role of Liver Biopsy in diagnosis. Describe the procedure briefly.

MICROBIOLOGY

7. (a) A child aged 7 years is admitted with high fever, head-ache, projectile vomiting, confusion and convulsion of 5 days duration.

How will you proceed to establish the diagnosis.

Or

(b) Describe the various laboratory methods for diagnosing syphilis.

Critically evaluate their role in diagnosis and differential diagnosis.

March-1992

[ 247 A ]

M.D. DEGREE EXAMINATION, MARCH 1992.

Branch I

Part I

Paper I — APPLIED BASIC MEDICAL SCIENCES

Time : Two hours.

Maximum : 90 marks.

SECTION B

ANATOMY

Write short notes on :

1. (a) Traub space.  
(b) Mitral apparatus.  
(c) Oculomotor nerve. (15)

PHYSIOLOGY

2. (a) Taste sensation.  
(b) Postural maintenance of blood pressure.  
(c) Counter current system. (15)

BIOCHEMISTRY

3. (a) Osmolol gap.  
(b) Lipid profile.  
(c) Uric acid. (15)

PHARMACOLOGY

4. (a) A quinalones.  
(b) Drug interaction.  
(c) Calcium channel blockers. (1)

PATHOLOGY

5. (a) Organ transplantation.  
(b) Aids lymphadenopathy.  
(c) ESR. (1)

MICROBIOLOGY

6. (a) Critically evaluate blood widal test.  
(b) Atypical mycobacteria.  
(c) Larva migrans. (1)
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September-1992

[A]

M.D. DEGREE EXAMINATION, SEPTEMBER 1992.

General Medicine including Paediatric Medicine

Part I

APPLIED BASIC SCIENCES

Time : Three hours.

Maximum : 90 marks.

SECTION B

Write short notes on :

1. ANATOMY : (3 × 5 = 15)
  - (a) Scalenus anterior muscle.
  - (b) Hypospadias.
  - (c) Femoral canal.
  
2. PHYSIOLOGY : (3 × 5 = 15)
  - (a) Proton pump in gastric secretion.
  - (b) Secondary hyperparathyroidism.
  - (c) Coagulation defects in haemophilia.
  
3. BIOCHEMISTRY : (3 × 5 = 15)
  - (a) Calcitonin.
  - (b) Biochemical changes in obstructive jaundice.
  - (c) Biochemical changes in myocardial infarction.

4. PHARMACOLOGY : (3 × 5 = 15)
  - (a) Pharmacokinetics.
  - (b) Carbimazole.
  - (c) Adjuvant chemotherapy in cancer breast.
  
5. PATHOLOGY : (3 × 5 = 15)
  - (a) FNAC in thyroid malignancy.
  - (b) Pathology of Ewing's sarcoma.
  - (c) Local factors influencing wound healing in a diabetic.
  
6. MICROBIOLOGY : (3 × 5 = 15)
  - (a) Madura mycosis.
  - (b) Management of a case of Tetanus.
  - (c) Lab test in AIDS.

March-1993

[ 1147 A ]

POST-GRADUATE DEGREE EXAMINATION, MARCH 1993.

Branch I and VII

General Medicine and Paediatric Medicine

MCQ BASIC SCIENCES

Time : Three hours.

Maximum : 90 marks.

SECTION B

Short notes :

ANATOMY

1. (a) Flail chest.  
(b) Common bile duct.  
(c) Vertebral artery.

PHYSIOLOGY

2. (a) Composition and functions of lymph.  
(b) Hypo function of thyroid gland.  
(c) Functions of platelets.

BIOCHEMISTRY

3. (a) Absorption of Iron.  
(b) Isoenzymes.  
(c) Formation and disposal of bilirubin.

PHARMACOLOGY

4. (a) Corticosteroids-indication and side effects.  
(b) Nerves insulin.  
(c) Potassium sparing diuretics.

PATHOLOGY

5. (a) Bone marrow changes in Macrocytic anaemia.  
(b) Oat cell carcinoma.  
(c) Chronic gastric ulcer.

MICROBIOLOGY

6. (a) Serum sickness.  
(b) Microfilaria of W. Bancrofti  
(c) Prophylaxis of tetanus.
-

April-1995

**S.B 147**

**M.D. DEGREE EXAMINATION.**

**Branch I --- General Medicine**

**Old/New/Revised Regulations**

**Part I**

**APPLIED BASIC SCIENCES**

**Common to Branch I General Medicine and  
Branch VII Paediatric Medicine)**

**Time : Three hours**

**Maximum : 180 marks**

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

**Answer ALL questions.**

**ANATOMY**

1. Describe the vascular anatomy of the brain. (15)
2. Write short notes on :
  - (a) Infra nuclear course of the facial nerve.
  - (b) Lymphatic drainage of the stomach.
  - (c) Development of the heart. (3 x 5 = 15)

SB 147

PHYSIOLOGY

3. Describe the physiology of pain sensation and perception. (15)
4. Write short notes on :
- (a) Cyanosis.
  - (b) Glomerular filtration.
  - (c) Thrombocytopenia. (3 × 5 = 15)

BIOCHEMISTRY

5. Discuss the liver function tests and their value in clinical biochemistry. (15)
6. Write short notes on :
- (a) Immunoglobulins.
  - (b) Glucagon.
  - (c) Prostaglandins. (3 × 5 = 15)

PHARMACOLOGY

7. Write briefly on the pharmacology of antimalarial drugs. (15)
8. Write short notes on :
- (a) Aminoglycosides.
  - (b) Metronidazole.
  - (c) Azidodeoxythymidine. (3 × 5 = 15)

SB 147

PATHOLOGY

8. Discuss the pathology of Rheumatic Heart disease. (15)
9. Write short notes on :
- (a) Renal Oedema.
  - (b) Oncogenes.
  - (c) Miliary Tuberculosis. (3 × 5 = 15)

MICROBIOLOGY

10. Give a brief account of antibiotic assessment. (15)
11. Write short notes on :
- (a) H. Pylori.
  - (b) Live vaccines.
  - (c) Rota virus. (3 × 5 = 15)
-

November-1995

[MB 147]

M.D. DEGREE EXAMINATION.

Branch I — General Medicine

(Old/New/Revised Regulations)

Part I

Paper I — APPLIED BASIC SCIENCES

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

Time: Three hours.

Maximum: 180 marks.

Answer each subject in a separate answer book.

Answer ALL questions.

Write short notes:

#### ANATOMY

1. Microscopic anatomy of Pancreas.
2. Circulation of blood in the liver.
3. Ductus arteriosus.
4. Development of the interventricular septum.
5. Area of supply of posterior inferior cerebellar artery. (5 × 6 = 30)

[MB 147]

#### PHYSIOLOGY

6. Cytoprotection of gastric mucosa.
7. Ventilation: Perfusion ratio.
8. Determinants of venous pressure.
9. Anaemic hypoxia.
10. Neurogenic shock. (5 × 6 = 30)

#### BIOCHEMISTRY

11. Anion gap.
12. Potassium balance in transfusion of aged blood.
13. Serum Isoenzymes in myocardial infarction.
14. Leukotrienes.
15. Composition of extracellular fluid. (5 × 6 = 30)

#### PHARMACOLOGY.

16. Third generation cephalosporins.
17. Human insulin.
18. Sumatryptan.
19. Drugs used in Bronchial asthma.
20. Anti platelet agents. (5 × 6 = 30)

November-1995

[ MB 147 ]

**PATHOLOGY**

21. Amyloid spleen.
22. Haemochromatosis.
23. Kimmelsteil Wilsons disease.
24. Pathological calcification.
25. Classification of Lymphomas. (5 × 6 = 30)

**MICROBIOLOGY**

26. Laboratory diagnosis of Plague.
27. Hepatitis C virus.
28. Multi drug resistant typhoid fever.
29. Delayed hyper sensitivity.
30. Ebola virus outbreaks in 1995. (5 × 6 = 30)



October-1997

**[MS 101]**

**M.D. DEGREE EXAMINATION.**

**- Branch I — General Medicine**

**(Old/New/Revised Regulations)**

**Part I**

**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.**

**Write briefly on each topic.**

**All questions carry equal marks.**

**ANATOMY**

**Broncho pulmonary segments.**

2. **Blood supply of spinal cord.**
3. **Development of interventricular/septum.**
4. **Histology of spleen.**
5. **Intestinal villi.**

**PHYSIOLOGY**

6. **Actions of antidiuretic hormone.**
7. **Starling forces.**

**[MS 101]**

8. Serine proteases.
9. Functions of Sertoli cells.
10. Lesions in visual pathway.

**BIO-CHEMISTRY**

11. HDL cholesterol.
12. March Haemoglobinuria.
13. Role of vitamin C in hormone synthesis and iron absorption.
14. Paradoxical aciduria.
15. Hypertriglyceridaemia.

**PHARMACOLOGY**

Drug therapy in AIDS.

Hepatitis-B vaccination.

Furosemide.

Cardio-selective beta blockers.

New approaches in antimalarial therapy.

**PATHOLOGY**

1. C.S.F. in tuberculous meningitis.
2. Sarcoidosis.
3. Hereditary spherocytosis.
4. Dermatomyositis.
5. Kidney in infective

**[MS 101]**

**MICROBIOLOGY**

26. Western blot test.
27. Hydatid cyst.
28. PICORNA viruses.
29. Mycobacterium leprae.
30. Salmonella typhi.

SV 101J

**M.D. DEGREE EXAMINATION.**

(Old/New/Revised Regulations)

**Part I**

**Paper I — APPLIED BASIC SCIENCES**

Examinee to Branch I — General Medicine, Branch VII —  
Obstetric 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**

Development of right atrium.

Embryology of pancreas.

Subpulmonary segments of left lung.

Motor fibres of brain.

Blood supply of thyroid gland.

**PHYSIOLOGY**

Microvascular changes in hypovolaemic shock.

Peristalsis movements.

Role of kidneys in water balance.

Mechanism of gastric acid secretion.

Role of hypothalamus in temperature regulation.

**BIOCHEMISTRY**

Qualitative test for haemoglobin.

Qualitative test for bilirubin.

13. Mode of action of steroid hormones.

14. Glycogen storage diseases.

15. Different types of jaundice.

**PHARMACOLOGY**

16. Management of opiate addiction.

17. Potassium sparing diuretics.

18. H<sub>1</sub> receptor blockers.

19. Pharmacotherapy of resistant falciparum malaria.

20. Quinolone group antibiotics.

**PATHOLOGY**

21. Neurosyphilis.

22. Osteoporosis.

23. Diabetic microangiopathy.

24. Extraintestinal amoebiasis.

25. Vascular tumours of liver.

**MICROBIOLOGY**

26. Hydatid disease of liver.

27. Cryptococcal meningitis.

28. Pyelonephritis.

29. Giardiasis.

30. Immunopathology of chronic rheumatic heart disease.

October-1998

[SM 101]

M.D. DEGREE EXAMINATION

(Old/New/Revised Regulations)

Part I

Paper I — APPLIED BASIC SCIENCES

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

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

1 Anatomy :

- (a) Broncho Pulmonary Segments
- (b) Porto caval anastomosis and its clinical importance
- (c) Arterial supply to brain
- (d) Pleura and its recesses.
- (e) Nerve supply of urinary bladder.

2 Physiology :

- (a) Factors controlling arterial blood pressure
- (b) Role of hypothalamus in regulation of hunger
- (c) Haemolytic disease of New born
- (d) Factors affecting glomerular filtration rate
- (e) Gastro intestinal hormones.

3 Biochemistry :

- (a) Sickle cell Hemoglobin
- (b) Bromsulphthalein test
- (c) Essential Pentosuria
- (d) 5-Hydroxy trptamine
- (e) Antioxidants

4 Pharmocology

(a) Compare and contrast tolbutamide and Metformin.

(b) Adverse effects of digoxin therapy, their prevention and management

- (c) Newer Insulins
- (d) Drug Dependence
- (e) Atropine substitutes

5 Pathology

- (a) Neuro cysticercosis
- (b) Pituitary apoplexy
- (c) Infectious endocarditis
- (d) Ulcerative colitis
- (e) Disseminated Intravascular Coagulation (DIC)

6 Microbiology

- (a) Aseptic meningitis
- (b) Black water fever
- (c) Whooping cough
- (d) Diagnosis of food poisoning
- (e) Urinary tract infections

[SG 101]

Sub. Code : 9000

M.D. DEGREE EXAMINATION

(Old/New/Revised Regulations)

Part I

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

- (a) Posterior inferior cerebellar artery
- (b) Vascular segments of liver
- (c) Coverings and Relations of right kidney
- (d) Course and Applied anatomy of Facial Nerve
- (e) Muscles of Respiration.

2 Physiology

- (a) Effects of incompatible blood transfusions
- (b) Artificial respiration
- (c) Micturation reflex
- (d) Functions of platelets
- (e) Muscles of Respiration

Biochemistry

- (a) Ketone bodies and their significance
- (b) Phenylketonuria
- (c) Biochemical diagnosis of obstructive jaundice
- (d) Biochemical diagnosis of acute myocardial infarction during the first 10 days of infarction
- (e) Lipotropic factors.

4. Pharmacology

- (a) Loop Diuretics
- (b) Compare and contrast—d-Tubocurarine and succinyl choline
- (c) Angiotensin — Converting Enzyme Inhibitors
- (d) Recent trends in the treatment of cardiac failure.
- (e) Treatment of methyl alcohol poisoning.

Pathology

- (a) Vascular pathology in Diabetes Mellitus
- (b) G-6 PD Deficiency
- (c) Haemochromatosis
- (d) Carcinoid tumour
- (e) Asbestosis.

October-1999

[KA 101]

Sub. Code : 9000

M.D. DEGREE EXAMINATION

(Old/New/Revised Regulations)

Part I

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.

1. Anatomy :

- (a) Cavernous sinus and its clinical importance
- (b) Neurogenic bladders
- (c) Sequelae of unequal division of the Truncus  
arteriosus
- (d) Innervation of tongue
- (e) Abducent nerve.

2. Physiology :

- (a) Hemorrhagic shock
- (b) Countercurrent mechanism
- (c) REM sleep
- (d) Intestinal movements
- (e) Regulation of erythropoiesis.

- 3 Biochemistry
- (a) Cerruloplasmin
  - (b) Role of fibre in the die.
  - (c) Hyper lipo proteinemie
  - (d) Renal glycosuria.
  - (e) Acute intermittent porphyria
- 4 Pharmacology
- (a) Acyflovir
  - (b) Treatment of Diabetic Ketoacidosis
  - (c) Streptokinase
  - (d) Domperidone
  - (e) ACE inhibitors
- 5 Pathology
- (a) Extra intestinal manifestations of Amoebiasis-
  - (b) Renal Rickets
  - (c) Exfoliative cytology.
  - (d) Common methods of spread of malignant umours
  - (e) Aplastic Anaemia
6. Microbiology :
- (a) Laboratory Diagnosis of Non-specific urethritis.
  - (b) Anthrax
  - (c) Japanese B encephalitis
  - (d) Anti phospholipid antibody syndrome
  - (e) Nocardiosis.



April-2000

**[KB 101]**

**Sub. Code : 9000**

**M.D. DEGREE EXAMINATION.**

**(Old/New/Revised Regulations)**

**Part I**

**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)**

- (a) Pleura and its Recesses.**
- (b) Portal circulation.**
- (c) VII cranial nerve.**
- (d) Nuclear Masses of Hypothalamus.**
- (e) Anatomy and Histopathology of Kidneys**

(PHYSIOLOGY)

2. (a) Pacemaker potential.  
(b) Sex chromatin.  
(c) Factors affecting Erythropoiesis  
(d) Immunoglobulins.  
(e) Renin    Angiotensin    —    Aldosterone  
Mechanism.

(BIOCHEMISTRY)

3. (a) Thyroid function test  
(b) Lactic Acidosis.  
(c) Phospholipids.  
(d) Transport of molecules across biological  
Membranes.  
(e) Western blot technique.

(PHARMACOLOGY)

4. (a) Low molecular heparin.  
(b) Oxygen free radicals and drugs.  
(c) Immunosuppressants.  
(d) Insulin resistance.  
(e) Role of Vasodilators in congestive cardiac  
failure.

(PATHOLOGY)

5. (a) Sarcoidosis.  
(b) C.S.F. in Biogenic Meningitis.  
(c) Pathology of aortic aneurysms  
(d) Radiation injury.  
(e) Erythema multiforme.

(MICROBIOLOGY)

6. (a) Leptospirosis.  
(b) Helicobacter Pylori.  
(c) Prophylaxis of Rabies.  
(d) Hepatitis C.  
(e) Group B Streptococcal Infection.
-

October-2000

[KC 101]

Sub. Code : 9000

M.D. DEGREE EXAMINATION.

(Old/New/Revised Regulations)

Part I

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.

1. Anatomy

- (a) Anatomy and Histopathology of pituitary gland
- (b) Broncho-Pulmonary segments
- (c) Trigeminal Ganglion
- (d) Nerve supply of Urinary Bladder
- (e) Anatomy and histopathology of Pancreas

2. Physiology

- (a) Frank-Starlings Law
- (b) Platelet plug
- (c) Atrial Natriuretic peptide
- (d) Functions of Bile
- (e) Effects of Insulin on various tissues

3. Biochemistry

- (a) Regulation of water balance
- (b) Hemoglobinopathies
- (c) Keto acidosis
- (d) Porphyrrias
- (e) DNA Polymerase Complex

Pharmacology

- (a) Third generation cephalosporin
- (b) Newer Insulins
- (c) Anti Malignancy antibiotics
- (d) Treatment of Digitalis Toxicity
- (e) Antiplatelet Drugs

5 Pathology

- (a) Tertiary syphilis
- (b) Lung injury related to air pollution
- (c) Coronary artery spasm
- (d) Pancoast tumor
- (e) Malignant Melanoma

6. Microbiology

- (a) Hydatid disease of Liver
- (b) Atypical mycobacteria
- (c) Lab. diagnosis of enteric fever
- (d) Aspergillosis
- (e) Aetiology of pyelonephritis.