

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.**

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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. Paradoxic aciduria.
15. Hypertriglyceridaemia.

PHARMACOLOGY

Drug therapy in AIDS.

Hepatitis-B vaccination.

Furosemide.

Cardio-selective beta blockers.

New approaches in antimalarial therapy.

PATHOLOGY

21. C.S.F. in tuberculous meningitis.
22. Sarcoidosis.
23. Hereditary spherocytosis.
24. Dermatomyositis.
25. Kidney in infective

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MICROBIOLOGY

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

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Examinee to Branch I — General Medicine, Branch VII —
Surgical 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.

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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.

Peristaltic movements.

Role of kidneys in water balance.

Regulation of gastric acid secretion.

Role of hypothalamus in temperature regulation.

BIOCHEMISTRY

Normal haemoglobin.

Structure of globulin M.

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. H₂ 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.

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

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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) Sick cell Hemoglobin
- (b) Bromsulphthalein test
- (c) Essential Pentosuria
- (d) 5-Hydroxy tryptamine
- (e) Antioxidants

4 Pharmacology

(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

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Sub. Code : 9000

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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

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(Common to Branch I — General Medicine, Branch VII
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Time : Three hours

Maximum 180 marks

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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) Acyclovir
- (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.

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Answer any FOUR short notes in each subject

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(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.
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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.