

March-2007

**[KQ 105]**

**Sub. Code : 2000**

**M.D. DEGREE EXAMINATION.**

**Branch I — General Medicine**

**Candidates admitted from 2004-2005 onwards**

**APPLIED BASIC SCIENCES IN MEDICINE**

**Time : Three hours**

**Maximum : 100 marks**

**Theory : Two hours and  
Twenty minutes**

**Theory : 60 marks**

**M.C.Q. : Forty minutes**

**M.C.Q. : 40 marks**

**Answer any TWO questions in each subject.  
Draw suitable diagrams wherever necessary.**

**(ANATOMY)**

**(2 × 5 = 10)**

- 1. Describe the course, relations and branches of coronary arteries.**
- 2. Describe the movements of extra ocular muscle of eyeball.**
- 3. Describe the extent of different parts of pleura, its nerve supply blood supply and its recesses.**

March-2007

(PHYSIOLOGY)

(2 × 5 = 10)

4. Erythropoietin.
5. Describe nerve supply of urinary bladder.
6. Insulin receptor.

(BIOCHEMISTRY)

(2 × 5 = 10)

7. Functions of parathormone.
8. Prothrombin time.
9. Hypertriglyceridemia.

(MICROBIOLOGY)

(2 × 5 = 10)

10. Plasmodium falciparum.
11. Paramyxovirus.
12. Weil's disease.

(PHARMACOLOGY)

(2 × 5 = 10)

13. Insulin resistance.
14. Tricyclic antidepressants.
15. Adverse effects and uses of Aspirin.

(PATHOLOGY)

(2 × 5 = 10)

16. Cerebral embolism.
  17. Myeloma kidney.
  18. Molecular genetics of lung carcinoma.
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September-2007

[KR 105]

Sub. Code : 2000

M.D. DEGREE EXAMINATION.

Branch I — General Medicine

(Candidates admitted from 2004–2005 onwards)

APPLIED BASIC SCIENCES IN MEDICINE

Time : Three hours Maximum : 100 marks

Theory : Two hours and twenty minutes Theory : 60 marks

M.C.Q. : Forty minutes M.C.Q. : 40 marks

Answer any TWO short notes in each subject.

(ANATOMY) (2 × 5 = 10)

1. (a) Broncho pulmonary segments
- (b) Foetal circulation
- (c) Circle of Willis (circulus arteriosus).

(PHYSIOLOGY) (2 × 5 = 10)

2. (a) Calcitonin
- (b) Blood-Brain Barrier
- (c) Counter-current mechanism.

(BIOCHEMISTRY) (2 × 5 = 10)

3. (a) Fatty liver
- (b) Tochoferol
- (c) Acute intermittant porphysia.

(PHARMACOLOGY) (2 × 5 = 10)

4. (a) Treatment of chloroquine resistant Malaria
- (b) Classify the anti-hypertensive drugs. Add a note on one latest anti hypertensive drug.
- (c) DOTS Therapy.

(MICROBIOLOGY) (2 × 5 = 10)

5. (a) Chickungunya fever
- (b) Immunoglobulins
- (c) Bio-terrorism.

(PATHOLOGY) (2 × 5 = 10)

6. (a) Non Bacterial Thrombotic Endocarditis (NBTE)
- (b) Non Cirrotic Portal Fibrosis (NCPF)
- (c) Tumour Markers.

**MARCH 2008**

**[KS 105]**

**Sub. Code : 2000**

M.D. DEGREE EXAMINATION.

Branch I — General Medicine

(Candidates admitted from 2004–2005 onwards)

APPLIED BASIC SCIENCES IN GENERAL MEDICINE

**Q.P.Code : 202000**

Time : Three hours

Maximum : 100 marks

ANATOMY (Answer any FOUR questions) (4 × 5 = 20)

- I. (1) Blood supply of spinal cord.  
(2) Facial Nerve.  
(3) Pituitary gland.  
(4) Portal circulation.  
(5) Bowman's capsule.

PHYSIOLOGY (Answer any FOUR questions) (4 × 5 = 20)

- II. (1) Pulmonary function tests.  
(2) Measurement of cardiac output.  
(3) Iron Metabolism  
(4) Temperature regulation.  
(5) Physiology of consciousness.

BIOCHEMISTRY (Answer any THREE questions) (3 × 5 = 15)

- III. (1) Immunoglobulins.  
(2) Jaundice.  
(3) Oral glucose Tolerance test.  
(4) Hyperlipidemia.

PHARMACOLOGY (Answer any THREE questions) (3 × 5 = 15)

- IV. (1) Newer Insulins.  
(2) Antiamoebic drugs.  
(3) Drug addiction.  
(4) Antimitotics.

MICROBIOLOGY (Answer any THREE questions) (3 × 5 = 15)

- V. (1) Leishmaniasis.  
(2) Atypical Mycobacteria.  
(3) Filariasis.  
(4) Syphilis.

PATHOLOGY (Answer any THREE questions) (3 × 5 = 15)

- VI. (1) Non-Hodgkin's Lymphoma.  
(2) Acute Myeloid Leukemia.  
(3) Cirrhosis of Liver.  
(4) Small cell Lung cancer.

September 2008

[KT 105]

Sub. Code: 2000

**M.D. DEGREE EXAMINATION**

**BRANCH I –GENERAL MEDICINE**

(Candidates admitted from 2004-2005 onwards)

**Paper I - APPLIED BASIC SCIENCES IN GENERAL MEDICINE**

*Q.P. Code : 202000*

**Time : Three hours**

**Maximum : 100 marks**

**I. ANATOMY - Answer any FOUR questions. (4 X 5=20)**

1. Pericardium
2. Occulomotor nerve
3. Adrenal gland
4. Spleen.
5. Nerve supply of the Bladder.

**II. PHYSIOLOGY - Answer any FOUR questions. (4 X 5=20)**

1. Physiology of aerobic exercise.
2. Sympatho – Adrenal system physiology
3. Hypothalamo – pitutary axis.
4. Ventilation – Perfusion Quotient.
5. Renin – Angiotensin physiology.

**III. BIOCHEMISTRY - Answer any THREE questions. (3 X 5=15)**

1. Kreb's cycle.
2. Acid – base balance.
3. Essential fatty acids.
4. Calcium metabolism.

**IV. PHARMACOLOGY - Answer any THREE questions. (3 X 5=15)**

1. Nitric oxide.
2. Drug interactions.
3. Sulfasalazine.
4. Vitamin Excess.

**V. PATHOLOGY - Answer any THREE questions. (3 X 5=15)**

1. Reid sternberg gaint cell.
2. Non – Caseating granuloma
3. Bridging Necrosis.
4. Cancer Genetics.

**VI. MICROBIOLOGY - Answer any THREE questions. (3 X 5=15)**

1. Cytomegalovirus.
  2. Pneumocystis infection.
  3. Gonococcal infection.
  4. Delta virus of Hepatitis.
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March 2009

[KU 105]

Sub. Code: 2000

**M.D. DEGREE EXAMINATIONS**

**Branch I – GENERAL MEDICINE**

**(Candidates admitted from 2004 – 2005 to 2007-2008)**

**and (candidates admitted from 2008-2009 onwards)**

**Paper I – APPLIED BASIC SCIENCES IN GENERAL MEDICINE**

***Q.P. Code : 202000***

**Time : Three hours**

**Maximum : 100 marks**

**I. ANATOMY - Answer any FOUR questions. (4 x 5=20)**

1. Oculomotor Nerve.
2. Para thyroid gland.
3. Broncho-pulmonary segments.
4. Nervous control of urinary bladder.
5. Structure of pancreas.

**II. PHYSIOLOGY - Answer any FOUR questions. (4 x 5=20)**

1. Liver function tests.
2. Syndrome of shock.
3. Calcium metabolism.
4. Gut Hormones.
5. Thyroid function tests.

**III. BIOCHEMISTRY - Answer any THREE questions. (3 x 5=15)**

1. Serum protein Electrophoresis.
2. Porphyrin metabolism.
3. Glucose – 6 – phosphate dehydrogenase.
4. Abnormalities of potassium.

**IV. PHARMACOLOGY - Answer any THREE questions. (3 x 5=15)**

1. Newer Quinolones.
2. Anti-malarial drugs.
3. Anti-viral agents.
4. Oral hypoglycaemic agents.

**V. PATHOLOGY - Answer any THREE questions. (3 x 5=15)**

1. Chronic myeloid leukemia.
2. Renal manifestations of SLE.
3. Rheumatic Fever.
4. Brain Abscess.

**VI. MICROBIOLOGY - Answer any THREE questions. (3 x 5=15)**

1. Aspergillosis.
2. Pneumocystis carini.
3. Leprosy.
4. Mycoplasma.

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September 2009

[KV 105]

Sub. Code: 2000

**M.D. DEGREE EXAMINATIONS**

**Branch I – GENERAL MEDICINE**

**(Candidates admitted from 2004 – 2005 to 2007-2008)**

**and (candidates admitted from 2008-2009 onwards)**

**Paper I – APPLIED BASIC SCIENCES IN GENERAL MEDICINE**

*Q.P. Code : 202000*

**Time : Three hours**

**Maximum : 100 marks**

**I. ANATOMY - Answer any FOUR questions. (4 x 5=20)**

1. Venous drainage of Brain
2. Optic Nerve
3. Thyroid Gland
4. Glomerulus
5. Pancreas

**II. PHYSIOLOGY - Answer any FOUR questions. (4 x 5=20)**

1. Kidney function tests
2. Function of Para thyroid gland
3. Conduction system of Heart and ECG
4. Erythropoiesis and its regulation
5. Fat metabolism

**III. BIOCHEMISTRY - Answer any THREE questions. (3 x 5=15)**

1. Plasma Proteins
2. Iron metabolism
3. Coagulation of blood
4. Gastric secretion and their hormones

**IV. PHARMACOLOGY - Answer any THREE questions. (3 x 5=15)**

1. Antiretroviral Drugs
2. Anthelmintics
3. Anti arrhythmic drugs
4. Coagulants and Anticoagulants

**V. PATHOLOGY - Answer any THREE questions. (3 x 5=15)**

1. Hodgkins disease
2. Acute Lymphoblastic Leukemia
3. Pericarditis
4. Pituitary Adenoma

**VI. MICROBIOLOGY - Answer any THREE questions. (3 x 5=15)**

1. Extra pulmonary Tuberculosis
2. Cestode infestation
3. Leptospirosis
4. Extra intestinal amoebiasis

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March 2010

[KW 105]

Sub. Code: 2000

**M.D. DEGREE EXAMINATION**

**Branch I – GENERAL MEDICINE**

**Paper I – (for candidates admitted from 2004-2005 to 2007-2008) and  
Part I – Paper I (for candidates admitted from 2008-2009 onwards)  
APPLIED BASIC SCIENCES IN GENERAL MEDICINE**

*Q.P. Code : 202000*

**Time : Three hours**

**Maximum : 100 marks**

**Draw suitable diagram wherever necessary.**

**Answer ALL questions.**

**I. ANATOMY**

**(4 x 5=20)**

1. Mediastinum.
2. Coronary circulation.
3. Nerve supply of urinary bladder.
4. Blood supply of liver.

**II. PHYSIOLOGY**

**(4 x 5=20)**

1. Cardiogenic shock.
2. Physiology of micturition.
3. Hyponatraemia.
4. Liver function tests.

**III. BIOCHEMISTRY**

**(3 x 5=15)**

1. Glycosylated haemoglobin (HbA1C).
2. Dyslipidemia.
3. Glucose – 6 phosphate dehydrogenase deficiency.

**IV. PHARMACOLOGY**

**(3 x 5=15)**

1. Antiviral drugs.
2. Antihelminthic drugs.
3. Anti epileptics.

**V. PATHOLOGY**

**(3 x 5=15)**

1. Haemolytic anaemia.
2. Chronic myeloid leukemia.
3. Rapidly progressive glomerulonephritis.

**VI. MICROBIOLOGY**

**(3 x 5=15)**

1. Amoebiasis.
2. Herpes zoster.
3. Leptospirosis.

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**M.D. DEGREE EXAMINATIONS**

**BRANCH I –GENERAL MEDICINE**

**APPLIED BASIC SCIENCES IN GENERAL MEDICINE**

**Paper I - (for candidates admitted from 2004 – 2005 to 2007-2008) and  
Part I - (for candidates admitted from 2008-2009 onwards)**

*Q.P. Code : 202000*

**Time : Three hours**

**Maximum : 100 marks**

**I. ANATOMY**

**(4 X 5=20)**

1. Circle of Willis.
2. Conduction system of the heart.
3. Segments of the lung.
4. Collecting system of the kidney.

**II. PHYSIOLOGY**

**(4 X 5=20)**

1. Gut hormones.
2. Thyroid function tests.
3. Micturition reflex.
4. Renin-angiotensin system

**III. BIOCHEMISTRY**

**(3 X 5=15)**

1. Fat soluble vitamins.
2. Acid phosphatase.
3. Respiratory acidosis.

**IV. PHARMACOLOGY.**

**(3 X 5=15)**

1. Antithyroid drugs.
2. Statins.
3. Side effects of beta blockers.

**V. PATHOLOGY**

**(3 X 5=15)**

1. Paroxysmal nocturnal haemoglobinuria.
2. Non-Hodgkins lymphoma.
3. Multiple myeloma.

**VI. MICROBIOLOGY**

**(3 X 5=15)**

1. Tape worm.
2. Hepatitis C virus.
3. Candidiasis.

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MAY 2011

[KY 105]

Sub. Code: 2000

**M.D. DEGREE EXAMINATION  
BRANCH I – GENERAL MEDICINE  
APPLIED BASIC SCIENCES IN GENERAL MEDICINE**

*Q.P. Code : 202000*

**Time : 3 hours  
(180 Min)**

**Maximum : 100 marks**

**Answer ALL questions in the same order.**

**Write notes on**

	<b>Pages (Max.)</b>	<b>Time (Max.)</b>	<b>Marks (Max.)</b>
<b>I. ANATOMY</b>			
1. Muscles of Respiration.	3	9	5
2. Right Atrium.	3	9	5
3. Vagus Nerve.	3	9	5
4. Development of Pancreas.	3	9	5
<b>II. PHYSIOLOGY</b>			
1. Enzymes involved in protein digestion.	3	9	5
2. Cough reflex.	3	9	5
3. Compensatory response of organs in Hypovolemic shock.	3	9	5
4. Bile acids.	3	9	5
<b>III. BIOCHEMISTRY</b>			
1. Essential Amino acids.	3	9	5
2. Vitamin E.	3	9	5
3. Prostaglandins.	3	9	5
<b>IV. PHARMACOLOGY.</b>			
1. Adverse effects of Phenytoin.	3	9	5
2. Quinine.	3	9	5
3. Vancomycin.	3	9	5
<b>V. PATHOLOGY</b>			
1. Type IV Hypersensitivity.	3	9	5
2. Types of Emphysema.	3	9	5
3. Pathological features of Alzheimer's disease.	3	9	5
<b>VI. MICROBIOLOGY</b>			
1. Chikungunya virus.	3	9	5
2. Lab diagnosis of leptospirosis.	3	9	5
3. Autoclave.	3	9	5

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October 2011

[KZ 105]

Sub. Code: 2000

**M.D. DEGREE EXAMINATION**  
**BRANCH I –GENERAL MEDICINE**  
**APPLIED BASIC SCIENCES IN GENERAL MEDICINE**

*Q.P. Code : 202000*

**Time : 3 hours**  
**(180 Min)**

**Maximum : 100 marks**

**Answer ALL questions in the same order.**

**Write notes on :**

	<b>Pages</b>	<b>Time</b>	<b>Marks</b>
	<b>(Max.)</b>	<b>(Max.)</b>	<b>(Max.)</b>
<b>I. ANATOMY</b>			
1. Foetal circulation.	3	9	5
2. Facial nerve.	3	9	5
3. Internal capsule – composition and blood supply.	3	9	5
4. Broncho pulmonary segments.	3	9	5
<b>II. PHYSIOLOGY</b>			
1. Tests of gastric function.	3	9	5
2. Erythropoietin.	3	9	5
3. Blood Brain Barrier.	3	9	5
4. Physiology of micturition.	3	9	5
<b>III. BIOCHEMISTRY</b>			
1. Immunoglobulins.	3	9	5
2. Plasma enzyme in disease.	3	9	5
3. Iron metabolism.	3	9	5
<b>IV. PHARMACOLOGY</b>			
1. Anti retroviral drugs.	3	9	5
2. Newer anti platelet drugs.	3	9	5
3. Newer macrolides.	3	9	5
<b>V. PATHOLOGY</b>			
1. Bridging necrosis.	3	9	5
2. RPGN. (Rapidly Progressive Glomerulo Nephritis)	3	9	5
3. Lacunar Infarct.	3	9	5
<b>VI. MICROBIOLOGY</b>			
1. PCR in clinical medicine.	3	9	5
2. Serological tests of tuberculosis.	3	9	5
3. Hepatitis 'C' virus.	3	9	5

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**M.D. DEGREE EXAMINATION****BRANCH I –GENERAL MEDICINE****APPLIED BASIC SCIENCES IN GENERAL MEDICINE***Q.P. Code : 202000***Time : 3 hours  
(180 Min)****Maximum : 100 marks****Answer ALL questions in the same order.****Write notes on****Pages Time Marks  
(Max.) (Max.) (Max.)****I. ANATOMY**

- |   |   |   |   |
|---|---|---|---|
| 1. Left ventricle.                                | 3 | 9 | 5 |
| 2. Microscopic structure of lung.                 | 3 | 9 | 5 |
| 3. Oculomotor nerve- course and sites of lesions. | 3 | 9 | 5 |
| 4. Pituitary gland and its vasculature.           | 3 | 9 | 5 |

**II. PHYSIOLOGY**

- |   |   |   |   |
|---|---|---|---|
| 1. Carbohydrate digestion.                      | 3 | 9 | 5 |
| 2. Control of respiration.                      | 3 | 9 | 5 |
| 3. Action potential and its applied physiology. | 3 | 9 | 5 |
| 4. Renin Angiotensin Aldosterone system.        | 3 | 9 | 5 |

**III. BIOCHEMISTRY**

- |  |   |   |   |
|--|---|---|---|
| 1. Metabolism and functions of Vitamin A.  | 3 | 9 | 5 |
| 2. Clinical importance of Glycogenolysis.  | 3 | 9 | 5 |
| 3. Acid phosphatase-isoforms and function. | 3 | 9 | 5 |

**IV. PHARMACOLOGY.**

- |  |   |   |   |
|--|---|---|---|
| 1. Adverse effects of Carbamazepine.                             | 3 | 9 | 5 |
| 2. Insulin analogues-clinical use & benefits over human insulin. | 3 | 9 | 5 |
| 3. Clinical advantages of Carbidopa.                             | 3 | 9 | 5 |

**V. PATHOLOGY**

- |                            |   |   |   |
|----------------------------|---|---|---|
| 1. Anaphylaxis.            | 3 | 9 | 5 |
| 2. Parkinson's disease.    | 3 | 9 | 5 |
| 3. Atherosclerotic plaque. | 3 | 9 | 5 |

**VI. MICROBIOLOGY**

- |                                    |   |   |   |
|------------------------------------|---|---|---|
| 1. Complement system.              | 3 | 9 | 5 |
| 2. Serological tests for syphilis. | 3 | 9 | 5 |
| 3. Life cycle of hook worm.        | 3 | 9 | 5 |

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**M.D. DEGREE EXAMINATION  
BRANCH I –GENERAL MEDICINE  
APPLIED BASIC SCIENCES IN GENERAL MEDICINE  
Q.P. Code : 202000**

**Time : 3 hours  
(180 Min)**

**Maximum : 100 marks**

**Answer ALL questions in the same order.**

**Write notes on**

**Pages    Time    Marks  
(Max.) (Max.) (Max.)**

**I. ANATOMY**

- |  |   |   |   |
|--|---|---|---|
| 1. Circle of Willis & its importance.            | 3 | 9 | 5 |
| 2. Bronchopulmonary segments & its significance. | 3 | 9 | 5 |
| 3. Facial nerve -course & applied Anatomy.       | 3 | 9 | 5 |
| 4. Microscopic structure of liver.               | 3 | 9 | 5 |

**II. PHYSIOLOGY**

- |                                  |   |   |   |
|----------------------------------|---|---|---|
| 1. Conduction system of heart.   | 3 | 9 | 5 |
| 2. Control of thyroid secretion. | 3 | 9 | 5 |
| 3. Urinary bladder control.      | 3 | 9 | 5 |
| 4. Renal function tests.         | 3 | 9 | 5 |

**III. BIOCHEMISTRY**

- |  |   |   |   |
|--|---|---|---|
| 1. Hydrochloric acid secretion in stomach. | 3 | 9 | 5 |
| 2. Bile pigment metabolism.                | 3 | 9 | 5 |
| 3. Vitamin D-New concepts.                 | 3 | 9 | 5 |

**IV. PHARMACOLOGY.**

- |   |   |   |   |
|---|---|---|---|
| 1. Angiotensin receptor blockers-clinical use.              | 3 | 9 | 5 |
| 2. Rosuvastatin-Indications, mechanism of action, benefits. | 3 | 9 | 5 |
| 3. Azithromycin-Indications, Adverse reactions.             | 3 | 9 | 5 |

**V. PATHOLOGY**

- |  |   |   |   |
|--|---|---|---|
| 1. Acute hepatitis- gross structure & microscopic appearance.    | 3 | 9 | 5 |
| 2. Post streptococcal glomerulonephritis-microscopic appearance. | 3 | 9 | 5 |
| 3. Structural lesions in Chronic bronchitis.                     | 3 | 9 | 5 |

**VI. MICROBIOLOGY**

- |  |   |   |   |
|--|---|---|---|
| 1. Structure and classification of Dengue virus. | 3 | 9 | 5 |
| 2. Lab diagnosis of tuberculosis.                | 3 | 9 | 5 |
| 3. Microbiological diagnosis of Malaria.         | 3 | 9 | 5 |

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**M.D. DEGREE EXAMINATION  
BRANCH I –GENERAL MEDICINE**

**APPLIED BASIC SCIENCES IN GENERAL MEDICINE**

**Q.P. Code: 202000**

**Time: Three Hours**

**Maximum: 100 marks**

**Write notes on:**

**I. ANATOMY (4X5=20)**

1. Coronary arteries & its branches-clinical importance.
2. Pyramidal tract & its applied anatomy.
3. Microscopic structure of Kidney.
4. Lymphatic drainage of the lungs.

**II. PHYSIOLOGY (4X5=20)**

1. Describe Erythropoiesis.
2. Structure and Functioning of Neuromuscular junction.
3. Interpretation of Lung function tests.
4. Regulation of secretion of Pituitary hormones.

**III. BIO-CHEMISTRY (3X5=15)**

1. Neoglucogenesis and its importance.
2. Uric acid metabolism in health and disease.
3. Biological markers of malignancy.

**IV. PHARMACOLOGY (3X5=15)**

1. DPP IV inhibitors-Indications & clinical benefits.
2. Discuss Bosentan.
3. Clinical use of Carbapenams.

**V. MICROBIOLOGY (3X5=15)**

1. Microbes causing acute cystitis.
2. Classification of Bacterial food poisoning.
3. Hand washing-current importance.

**VI. PATHOLOGY (3X5=15)**

1. Lobar pneumonia.
2. Nephrotic syndrome.
3. Alcoholic cirrhosis.

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[LD 105]

OCTOBER 2013

Sub. Code: 2000

**M.D. DEGREE EXAMINATION**

**BRANCH I – GENERAL MEDICINE**

**APPLIED BASIC SCIENCES IN GENERAL MEDICINE**

*Q.P. Code: 202000*

**Time: Three Hours**

**Maximum: 100 marks**

**Write notes on:**

**I. ANATOMY**

**(4 x 5 = 20)**

1. Blood supply of Heart.
2. Meckel's Diverticulum.
3. Blood Brain Barrier.
4. Development of Lung.

**II. PHYSIOLOGY**

**(4 x 5 = 20)**

1. Splanchnic circulation.
2. Respiratory Alkalosis.
3. Febrinolytic System.
4. Countercurrent multiplier System.

**III. BIO-CHEMISTRY**

**(3 x 5 = 15)**

1. Electrophoretic Pattern of Proteins.
2. Lactic Acidosis.
3. Glycogenesis.

**IV. PHARMACOLOGY**

**(3 x 5 = 15)**

1. Daptomycin – Indications and Adverse Reactions.
2. Fibrates – Indications and side effects.
3. Sodium Nitroprusside.

**V. MICROBIOLOGY**

**(3 x 5 = 15)**

1. Serologic Tests for Syphilis.
2. Pathologic species and Diagnostic Laboratory Tests.
3. Laboratory Tests for Cryptococcus.

**VI. PATHOLOGY**

**(3 x 5 = 15)**

1. Silicosis and Lung.
2. Morphology of ASD.
3. Berger's disease and IgA Nephropathy.

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[LE 105]

APRIL 2014

Sub. Code: 2000

**M.D. DEGREE EXAMINATION  
BRANCH I –GENERAL MEDICINE**

**APPLIED BASIC SCIENCES IN GENERAL MEDICINE**

*Q.P. Code :202000*

**Time : Three Hours**

**Maximum : 100 marks**

**Write Notes on :**

**I. ANATOMY: (4X5=20)**

1. Anatomy of cavernous sinus and its lesions.
2. Speech centre and its lesions.
3. Portal hypertension.
4. Cauda equina and its lesions.

**II. PHYSIOLOGY: (4X5=20)**

1. Coagulation cascade.
2. Surfactant.
3. ACE inhibition.
4. Ventricular remodeling.

**III. BIO-CHEMISTRY: (3X5=15)**

1. Markers of acute kidney injury.
2. ABG in respiratory diseases
3. Evaluation of Wilsons diseases.

**IV. PHARMACOLOGY: (3X5=15)**

1. Drug therapy of resistant hypertension.
2. Newer antidepressants.
3. Tolvaptan.

**V. PATHOLOGY: (3X5=15)**

1. Alcoholic liver injury.
2. Pathologic changes in Alzheimers disease.
3. Pathology of acute lung injury.

**VI. MICROBIOLOGY: (3X5=15)**

1. Serological diagnosis of HIV infection.
2. Diagnosis of leptospirosis.
3. Proinflammatory cytokines.

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[LF 105]

OCTOBER 2014

Sub. Code: 2000

**M.D. DEGREE EXAMINATION  
BRANCH I – GENERAL MEDICINE**

**PAPER I - APPLIED BASIC SCIENCES IN GENERAL MEDICINE**

*Q.P. Code: 202000*

**Time: Three Hours**

**Maximum: 100 marks**

**Write Notes on:**

**I. ANATOMY:**

**(4 x 5 = 20)**

1. Lymphatic drainage of Lung.
2. Extra ocular muscles and actions.
3. Development of spleen.
4. Recurrent laryngeal nerve lesions.

**II. PHYSIOLOGY:**

**(4 x 5 = 20)**

1. Exocrine functions of pancreas.
2. Metabolic acidosis.
3. Erythropoiesis.
4. Sleep disorders.

**III. BIO-CHEMISTRY:**

**(3 x 5 = 15)**

1. Uric acid metabolism.
2. Thyroid function tests.
3. Urine tests for inborn errors of metabolism.

**IV. PHARMACOLOGY:**

**(3 x 5 = 15)**

1. Insulin degludec.
2. Newer antimalarials.
3. H1 blockers.

**V. PATHOLOGY:**

**(3 x 5 = 15)**

1. Primary intracranial tumours.
2. Restrictive cardiomyopathy.
3. Ulcerative colitis.

**VI. MICROBIOLOGY:**

**(3 x 5 = 15)**

1. Serological diagnosis of ebola.
2. Laboratory tests for atypical mycobacteria.
3. Transport media.

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