**501-A**

**M.B.B.S. DEGREE EXAMINATION – JULY, 2012**

**FIRST M.B.B.S. EXAMINATION**

**ANATOMY**

**PAPER-I**

**Time : 2 ½ Hours Max. Marks : 50**

**Note: Answer all questions**

**Illustrate your answers with suitable diagrams**

|  |  |  |
| --- | --- | --- |
|  | **Describe the extra ocular muscles under the following headings:**  **(a)Origin (b) Insertion (c) Nerve supply**  **(d) action** | **3+3+2+2=10** |
|  | **Write about the gross anatomy, lymphatic drainage and applied aspects of mammary gland.** | **4+3+3=10** |
|  | **WRITE SHORT NOTES ON:** | **5x4=20** |
|  | **Inferior horn of lateral ventricle** |  |
|  | **Decidua** |  |
|  | **First pharyngeal arch** |  |
|  | **Microscopic appearance of muscular artery** |  |
|  | **Fornix** |  |
|  | **WRITE BRIEFLY ON:** | **5x2=10** |
|  | **Axillary Sheath** |  |
|  | **Middle radio-ulnar joint** |  |
|  | **Little’s area** |  |
|  | **Foramen caecum** |  |
|  | **Filum terminale**  **- - -** |  |

**502-A**

**M.B.B.S. DEGREE EXAMINATION – JULY, 2012**

**FIRST M.B.B.S. EXAMINATION**

**ANATOMY**

**PAPER-II**

**Time : 2 ½ Hours Max. Marks: 50**

**Note: Answer all questions**

**Illustrate your answers with suitable diagrams**

|  |  |  |
| --- | --- | --- |
|  | **Describe the pelvic diaphragm and its applied anatomy** | **6+4=10** |
|  | **Describe the internal feature of right atrium and give its development** | **5+5=10** |
|  | **WRITE SHORT NOTES ON:** | **5x4=20** |
|  | **Dorsalis pedis artery** |  |
|  | **Popliteus muscle** |  |
|  | **Microscopic structure of lung** |  |
|  | **Down syndrome** |  |
|  | **Femoral sheath** |  |
|  | **WRITE BRIEFLY ON:** | **5x2=10** |
|  | **Metaphysis** |  |
|  | **Douglas pouch** |  |
|  | **Ligamentum arteriosum** |  |
|  | **Trochanteric anastomosis** |  |
|  | **Pulmonary ligament** |  |

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**500-A**

**M.B.B.S. DEGREE EXAMINATION – JULY, 2012**

**FIRST M.B.B.S. EXAMINATION**

**BIOCHEMISTRY**

**PAPER-I**

**Time : 2 ½ Hours Max. Marks: 50**

**Answer all questions**

|  |  |  |
| --- | --- | --- |
|  | **Explain the reactions of Glycogenesis and Glycogenolysis in liver. How are these pathways regulated?** | **4+3+3=10** |
|  | **Give an account of the sources, chemistry, biochemical functions, deficiency diseases and daily requirement of vitamin A.** | **1+2+3+3+1=10** |
|  | **WRITE SHORT NOTES ON:** | **5x4=20** |
|  | **Ketogenesis** |  |
|  | **Porphyrias** |  |
|  | **Competitive inhibition.** |  |
|  | **Kwashiorkor and marasmus** |  |
|  | **Galactosemia** |  |
|  | **WRITE BRIEFLY ON:** | **5x2=10** |
|  | **Essential fatty acids.** |  |
|  | **What are Isomerases? Give two examples.** |  |
|  | **Sickle cell hemoglobin** |  |
|  | **Enzyme defects in essential fructosuria and hereditary fructose intolerance.** |  |
|  | **Sources and functions of Folic acid.**  **- - -** |  |

**500-B**

**M.B.B.S. DEGREE EXAMINATION – JULY, 2012**

**FIRST M.B.B.S. EXAMINATION**

**BIOCHEMISTRY**

**PAPER-II**

**Time : 2 ½ Hours Max. Marks : 50**

**Answer all questions**

|  |  |  |
| --- | --- | --- |
|  | **Explain the pathway for the degradation of purine nucleotides and enumerate the associated metabolic disorders.** | **6+4=10** |
|  | **Give an account of transamination, deamination and transmethylation.** | **4+3+3=10** |
|  | **WRITE SHORT NOTES ON:** | **5x4=20** |
|  | **Regulation of plasma calcium** |  |
|  | **Metabolic and respiratory alkalosis** |  |
|  | **Plasma proteins and their functions.** |  |
|  | **Tumor markers.** |  |
|  | **Secondary structure of proteins.** |  |
|  | **WRITE BRIEFLY ON:** | **5x2=10** |
|  | **Differences between amylose and amylopectin** |  |
|  | **What are conjugated proteins? Give two examples.** |  |
|  | **Biochemical functions of sodium.** |  |
|  | **Base pairing rule** |  |
|  | **Alkaptonuria**  **- - -** |  |

**503-A**

**M.B.B.S. DEGREE EXAMINATION – JULY, 2012**

**FIRST M.B.B.S. EXAMINATION**

**PHYSIOLOGY**

**PAPER-I**

**Time : 2 ½ Hours Max. Marks: 50**

**Answer all questions**

|  |  |  |
| --- | --- | --- |
|  | **Define blood pressure, systolic pressure, diastolic pressure and pulse pressure with their normal values. Explain the baroreceptor reflex regulation of blood pressure with a suitable diagram.** | **10** |
| **2)** | **What is the physiological basis of blood grouping? Explain the blood groups and their clinical importance. Add a note on cross matching.** | **10** |
|  | **WRITE SHORT NOTES ON:** | **5x4=20** |
| **3)** | **Erythropoiesis** |  |
| **4)** | **Pacemaker potential** |  |
| **5)** | **Coronary circulation** |  |
| **6)** | **Timed vital capacity in obstructive and restrictive disorders with diagram** |  |
| **7)** | **Enterohepatic circulation of bile salts.** |  |
|  | **WRITE BRIEFLY ON:** | **5x2=10** |
| **8)** | **Dietary fiber** |  |
| **9)** | **Arteriovenous anastomoses** |  |
| **10)** | **Triple response** |  |
| **11)** | **Inulin clearance** |  |
| **12)** | **Chloride shift**  **- - -** |  |

**504-A**

**M.B.B.S. DEGREE EXAMINATION – JULY, 2012**

**FIRST M.B.B.S. EXAMINATION**

**PHYSIOLOGY**

**PAPER-II**

**Time : 2 ½ Hours Max. Marks : 50**

**Answer all questions**

|  |  |  |
| --- | --- | --- |
|  | **Draw a labelled diagram of neuromuscular junction. Enumerate the events which occur during its transmission and add a note on myasthenia gravis.** | **10** |
|  | **Name the functional divisions of cerebellum. Explain the connections and functions of it and add a note on cerebellar disease.** | **10** |
|  | **WRITE SHORT NOTES ON:** | **5x4=20** |
|  | **Spermatogenesis** |  |
|  | **Features of Cushing’s syndrome** |  |
|  | **Role of hypothalamus in regulation of food intake** |  |
|  | **Parkinsonism and physiological basis of a drug used in its treatment** |  |
|  | **Colour vision** |  |
|  | **WRITE BRIEFLY ON:** | **5x2=10** |
|  | **Flight or fight reaction** |  |
|  | **Actions of gonadotropic hormone in males and females** |  |
|  | **Renshaw cell inhibition** |  |
|  | **Functions of blood testis barrier** |  |
|  | **Physiological basis of anovulatory menstrual cycle** |  |