**501-A**

**M.B.B.S. DEGREE EXAMINATION – JANUARY, 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 thyroid gland under the following headings:**  **(a) Gross features (b) Relations (c) Blood supply (d) Applied aspects.** | **3+2+3+2=10** |
|  | **Describe the course, relations, branches and applied anatomy of ulnar nerve.** | **2+3+3+2=10** |
|  | **WRITE SHORT NOTES ON:** | **5x4=20** |
|  | **Flexor retinaculum of hand.** |  |
|  | **Lateral ventricle** |  |
|  | **Development of Tongue and its nerve supply** |  |
|  | **Histology of lymph node** |  |
|  | **Supinator muscle** |  |
|  | **WRITE BRIEFLY ON:** | **5x2=10** |
|  | **Boundaries of cubital fossa.** |  |
|  | **Parotid duct** |  |
|  | **Cauda equina.** |  |
|  | **Formation and termination of superficial palmar arch** |  |
|  | **Branches of radial nerve in the radial groove.**  **- - -** |  |

**502-A**

**M.B.B.S. DEGREE EXAMINATION – JANUARY, 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 femoral artery under the following headings:**  **(a) Origin and course (b) Relations (c) Branches (d) Clinical importance.** | **3+3+3+1=10** |
|  | **Describe uterus under the following headings:**  **(a) Ligaments (b) Blood supply (c) Lymphatic drainage (d) Applied aspects.** | **3+3+2+2=10** |
|  | **WRITE SHORT NOTES ON:** | **5x4=20** |
|  | **Pericardium.** |  |
|  | **Histology of kidney.** |  |
|  | **Turner’s syndrome.** |  |
|  | **Development of urinary bladder.** |  |
|  | **Stomach bed.** |  |
|  | **WRITE BRIEFLY ON:** | **5x2=10** |
|  | **Name the derivatives of mesonephric duct.** |  |
|  | **Perineal body.** |  |
|  | **Hiltons Law.** |  |
|  | **Openings in the diaphragm.** |  |
|  | **Positions of Appendix.** |  |

- - -

**500-A**

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

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

**BIOCHEMISTRY**

**PAPER-I**

**Time : 2 ½ Hours Max. Marks: 50**

**Answer all questions**

|  |  |  |
| --- | --- | --- |
|  | **Explain the various factors affecting the enzyme activity. Add a note on the significance of the km value of the enzyme.** | **7+3=10** |
|  | **Discuss the mitochondrial electron transport chain (E.T.C.) and the inhibitors at various sites of this chain.** | **10** |
|  | **WRITE SHORT NOTES ON:** | **5x4=20** |
|  | **Detoxification by conjugation.** |  |
|  | **Glycogen storage diseases.** |  |
|  | **Fatty liver and lipotropic factors.** |  |
|  | **Hemoglobinopathies with examples.** |  |
|  | **Functions and deficiency features of Pyridoxine.** |  |
|  | **WRITE BRIEFLY ON:** | **5x2=10** |
|  | **Define isoenzymes. Give two examples and their diagnostic use.** |  |
|  | **Functions of Bile Salts.** |  |
|  | **Energetics of TCA (tricarboxylic acid) cycle.** |  |
|  | **Define antioxidants. Which Vitamins have antioxidant function?** |  |
|  | **Respiratory Quotient.**  **- - -** |  |

**500-B**

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

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

**BIOCHEMISTRY**

**PAPER-II**

**Time : 2 ½ Hours Max. Marks : 50**

**Answer all questions**

|  |  |  |
| --- | --- | --- |
|  | **Describe the steps of transcription in Eukaryotes. Give two examples for post transcriptional modifications.** | **8+2=10** |
|  | **Discuss the metabolism of calcium under the following sections:**  **(a) sources (b) Recommended daily allowance**  **(c) Functions (any 4) (d) Regulation of Plasma Level (e) Deficiency manifestations** | **1+1+4+2+2=10** |
|  | **WRITE SHORT NOTES ON:** | **5x4=20** |
|  | **Plasma buffers and the role of buffers in the regulation of pH.** |  |
|  | **Mechanisms of action of hormones.** |  |
|  | **Active transport with 2 examples.** |  |
|  | **Biological important products derived from glycine.** |  |
|  | **Enumerate the liver function tests. Explain the detoxification of bilirubin by the liver.** |  |
|  | **WRITE BRIEFLY ON:** | **5x2=10** |
|  | **Role of copper in iron metabolism.** |  |
|  | **Orotic aciduria** |  |
|  | **Bonds responsible for maintaining the higher levels of organization of protein structure.** |  |
|  | **Ribozymes.** |  |
|  | **Oncofetal antigens.**  **- - -** |  |

**503-A**

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

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

**PHYSIOLOGY**

**PAPER-I**

**Time : 2 ½ Hours Max. Marks: 50**

**Answer all questions**

|  |  |  |
| --- | --- | --- |
|  | **Describe the composition, functions and regulation of gastric juice secretion.** | **2+3+5=10** |
|  | **Describe counter current multiplier system in the kidney.** | **10** |
|  | **WRITE SHORT NOTES ON:** | **5x4=20** |
|  | **Mention functions of Platelets.** |  |
|  | **Cyanosis** |  |
|  | **Surfactant and its functions** |  |
|  | **Anaemias** |  |
|  | **Draw and label waves of ECG (Electro Cardiogram)** |  |
|  | **WRITE BRIEFLY ON:** | **5x2=10** |
|  | **Secretory vesicles** |  |
|  | **Functions of spleen** |  |
|  | **Cross matching of blood** |  |
|  | **Functions of lymph.** |  |
|  | **Heart sounds.**  **- - -** |  |

**504-A**

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

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

**PHYSIOLOGY**

**PAPER-II**

**Time : 2 ½ Hours Max. Marks : 50**

**Answer all questions**

|  |  |  |
| --- | --- | --- |
|  | **Explain the physiological actions of Insulin.** | **10** |
|  | **Describe the actions of ovarian hormones.** | **10** |
|  | **WRITE SHORT NOTES ON:** | **5x4=20** |
|  | **What is blood brain barrier? What is its functions and clinical importance?** |  |
|  | **What is Referred pain? Explain suitably.** |  |
|  | **Draw a neat diagram of Light reflex pathway and label it.** |  |
|  | **Functions of Limbic system.** |  |
|  | **Family planning methods in males.** |  |
|  | **WRITE BRIEFLY ON:** | **5x2=10** |
|  | **Draw a diagram of sarcomere and label it.** |  |
|  | **Refractory period.** |  |
|  | **Where is area number 44 located? What is its functions?** |  |
|  | **Functions of middle ear.** |  |
|  | **Adrenogenital syndrome.**  **- - -** |  |