**501-A**

**M.B.B.S. DEGREE EXAMINATION – NOVEMBER, 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 tongue under following headings:**   * 1. **Surface features**   2. **Musculature**   3. **Nerve Supply**   4. **Development** | **3+3+2+2=10** |
|  | **Describe Brachial plexus under the following headings:**   * 1. **Formation**   2. **Relations**   3. **Branches**   4. **Applied anatomy** | **2+3+2+3=10** |
|  | **WRITE SHORT NOTES ON:** | **5x4=20** |
|  | **Supinators of Forearm** |  |
|  | **Notochord** |  |
|  | **Draw a section of spinal cord and label the internal structures.** |  |
|  | **Microscopic appearance of thin skin** |  |
|  | **Lacrimal apparatus** |  |
|  | **WRITE BRIEFLY ON:** | **5x2=10** |
|  | **Action of Lumbricals** |  |
|  | **Winging of Scapula** |  |
|  | **Insula** |  |
|  | **Arcuate Nuclei** |  |
|  | **Rotator Cuff** |  |

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**502-A**

**M.B.B.S. DEGREE EXAMINATION – NOVEMBER, 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 boundaries and contents of popliteal fossa. Describe origin, course and branches of popliteal artery.** | **5+5=10** |
|  | **Describe the uterus under the following headings:**   * 1. **Gross features**   2. **Relations**   3. **Supports**   4. **Development** | **2+2+4+2=10** |
|  | **WRITE SHORT NOTES ON:** | **5x4=20** |
|  | **Differences between the left and right lungs.** |  |
|  | **Arterial supply of heart.** |  |
|  | **Microscopic Anatomy of Suprarenal Gland** |  |
|  | **Histology of testis** |  |
|  | **Femoral Sheath** |  |
|  | **WRITE BRIEFLY ON:** | **5x2=10** |
|  | **Types of Ossification** |  |
|  | **Definition of Mesentry** |  |
|  | **Movements at ankle joint** |  |
|  | **Cribriform Fascia** |  |
|  | **Contents of Spermatic Cord** |  |

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**500-A**

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

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

**BIOCHEMISTRY**

**PAPER-I**

**Time : 2 ½ Hours Max. Marks: 50**

**Answer all questions**

|  |  |  |
| --- | --- | --- |
|  | **Describe the biochemical changes in carbohydrate and lipid metabolism in prolonged starvation.** | **5+5=10** |
|  | **Describe the formation, transport and metabolic fate of ammonia in the body. What is ammonia toxicity?** | **2+2+4+2=10** |
|  | **WRITE SHORT NOTES ON:** | **5x4=20** |
|  | **Isoenzymes and their clinical importance** |  |
|  | **Folate trap (Methyl trap)** |  |
|  | **Define basal metabolic rate (BMR) and list the factors affecting BMR.** |  |
|  | **Advantages and disadvantages of intake of polyunsaturated fatty acids** |  |
|  | **Structure and function of glutathione** |  |
|  | **WRITE BRIEFLY ON:** | **5x2=10** |
|  | **Dietary fibre** |  |
|  | **Two main causes of Fatty liver** |  |
|  | **Main sources of sucrose and lactose.** |  |
|  | **Mention four Biochemical functions of**  **vitamin K** |  |
|  | **Any four functions of phospholipids** |  |

**500-B**

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

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

**BIOCHEMISTRY**

**PAPER-II**

**Time : 2 ½ Hours Max. Marks : 50**

**Answer all questions**

|  |  |  |
| --- | --- | --- |
|  | **Describe the process of DNA replication. Enumerate the DNA repair mechanisms.** | **8+2=10** |
|  | **Write the causes and biochemical findings in metabolic acidosis. Explain the compensatory mechanism.** | **2+3+5=10** |
|  | **WRITE SHORT NOTES ON:** | **5x4=20** |
|  | **Gout** |  |
|  | **Gastric function tests** |  |
|  | **Structure of plasma membrane** |  |
|  | **Creatinine clearance test** |  |
|  | **Biochemical functions of Copper in the body.** |  |
|  | **WRITE BRIEFLY ON:** | **5x2=10** |
|  | **Mention the essential component (rare element) and precursor of T3&T4** |  |
|  | **Functions of t-RNA** |  |
|  | **Name the four distinct phases of cell cycle** |  |
|  | **Genetic code** |  |
|  | **Four factors affecting absorption of iron**  **- - -** |  |

**503-A**

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

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

**PHYSIOLOGY**

**PAPER-I**

**Time : 2 ½ Hours Max. Marks: 50**

**Answer all questions**

|  |  |  |
| --- | --- | --- |
|  | **Enumerate the respiratory centers. Explain the neural and chemical regulation of respiration.** | **2+4+4=10** |
| **2)** | **Give an account of various factors involved in blood coagulation. Write a note on fibrinolytic system.** | **6+4=10** |
|  | **WRITE SHORT NOTES ON:** | **5x4=20** |
| **3)** | **Action potential of ventricular muscle** |  |
| **4)** | **Describe the composition and functions of Bile.** |  |
| **5)** | **Composition and functions of Saliva** |  |
| **6)** | **Regulation of glomerular filtration rate** |  |
| **7)** | **Lung volumes and capacities with their normal values.** |  |
|  | **WRITE BRIEFLY ON:** | **5x2=10** |
| **8)** | **Reactive hyperemia** |  |
| **9)** | **Distribution of body fluids** |  |
| **10)** | **Cause for production of heart sounds** |  |
| **11)** | **Define Cyanosis. Where it is seen?** |  |
| **12)** | **Intra pleural pressure**  **- - -** |  |

**504-A**

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

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

**PHYSIOLOGY**

**PAPER-II**

**Time : 2 ½ Hours Max. Marks : 50**

**Answer all questions**

|  |  |  |
| --- | --- | --- |
|  | **Name the anterior pituitary hormones. What are the functions and mechanism of action of growth hormone?** | **4+4+2=10** |
|  | **Draw a labelled diagram of corticospinal tracts. Explain the effect of decerebration on their function.** | **5+5=10** |
|  | **WRITE SHORT NOTES ON:** | **5x4=20** |
|  | **Types of muscle fibers** |  |
|  | **Thyroid function tests** |  |
|  | **Functions of thalamus** |  |
|  | **Neuromuscular junction.** |  |
|  | **Signs of ovulation** |  |
|  | **WRITE BRIEFLY ON:** | **5x2=10** |
|  | **Mention the functions of middle ear** |  |
|  | **Name the Contraceptive methods in females** |  |
|  | **Taste buds** |  |
|  | **Aphasia – Definition and types** |  |
|  | **Milk ejection reflex**  **- - -** |  |