**501-A**

**M.B.B.S. DEGREE EXAMINATION – NOVEMBER, 2013**

**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 scalp under the following headings.**   1. **Layers** 2. **Blood supply** 3. **Nerve supply** 4. **Applied Anatomy** | **3+2+3+2=10** |
|  | **Describe the shoulder joint under the following headings:**   1. **Type and articular surfaces** 2. **Ligaments** 3. **Relations** 4. **Movements with muscles involved** 5. **Applied anatomy** | **2+2+1+3+2=10** |
|  | **WRITE SHORT NOTES ON:** | **5x4=20** |
|  | **Axillary nerve** |  |
|  | **Contents, boundaries and applied anatomy of middle ear.** |  |
|  | **Development and anomalies of the palate** |  |
|  | **External features and applied anatomy cerebellum** |  |
|  | **Internal Capsule** |  |
|  | **WRITE BRIEFLY ON:** | **5x2=10** |
|  | **Mention four branches of external carotid artery** |  |
|  | **Implantation** |  |
|  | **Osteocytes** |  |
|  | **Visual cortex** |  |
|  | **Boundaries of digastric triangle** |  |

**502-A**

**M.B.B.S. DEGREE EXAMINATION – NOVEMEBR, 2013**

**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 Anal canal under the following headings:**   1. **Situation and extent** 2. **Interior** 3. **Musculature** 4. **Applied Anatomy** | **1+3+4+2=10** |
|  | **Describe the bronchopulmonary segments under the following headings:**   1. **Definition and general features** 2. **Bronchopulmonary segments of the right lung** 3. **Applied Anatomy** | **3+5+2=10** |
|  | **WRITE SHORT NOTES ON:** | **5x4=20** |
|  | **Common bile duct – Course and relations** |  |
|  | **Histology of the pancreas.** |  |
|  | **Development and anomalies of the kidney** |  |
|  | **Psoas major muscle – Origin, insertion and actions** |  |
|  | **Common peroneal nerve – Course, branches and applied anatomy** |  |
|  | **WRITE BRIEFLY ON:** | **5x2=10** |
|  | **Meiosis** |  |
|  | **Classification of bones** |  |
|  | **Turner’s syndrome** |  |
|  | **Arterial supply of the suprarenal gland** |  |
|  | **Mention supports of the uterus** |  |

- - -

**500-A**

**M.B.B.S. DEGREE EXAMINATION – NOVEMBER, 2013**

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

**BIOCHEMISTRY**

**PAPER-I**

**Time : 2 ½ Hours Max. Marks: 50**

**Answer all questions**

|  |  |  |
| --- | --- | --- |
|  | **Explain the components of electron transport chain and the flow of electrons through them. Add a note on inhibitors and uncouplers.** | **3+3+2+2=10** |
|  | **Define ‘glycogenesis’ and ‘glycogenolysis’. Describe glycogenesis in detail. How is it regulated?** | **2+5+3=10** |
|  | **WRITE SHORT NOTES ON:** | **5x4=20** |
|  | **Sickle cell haemoglobin** |  |
|  | **Therapeutic enzymes** |  |
|  | **Functions of cholesterol** |  |
|  | **Wald’s Visual cycle** |  |
|  | **Biochemical functions of Vitamin B12** |  |
|  | **WRITE BRIEFLY ON:** | **5x2=10** |
|  | **Metalloenzymes** |  |
|  | **Acute intermittent porphyria** |  |
|  | **Pyruvate dehydrogenase complex** |  |
|  | **Liposomes** |  |
|  | **Specific dynamic action** |  |

**500-B**

**M.B.B.S. DEGREE EXAMINATION – NOVEMBER, 2013**

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

**BIOCHEMISTRY**

**PAPER-II**

**Time : 2 ½ Hours Max. Marks : 50**

**Answer all questions**

|  |  |  |
| --- | --- | --- |
|  | **Explain how recombinant DNA is formed. What are the applications of recombinant DNA technology in medicine?** | **5+5=10** |
|  | **Describe the formation of uric acid. What is the normal serum uric acid level? Explain the disease associated with its accumulation. Write the ways for lowering serum uric acid level.** | **4+1+3+2=10** |
|  | **WRITE SHORT NOTES ON:** | **5x4=20** |
|  | **Urea cycle** |  |
|  | **Nucleosomes** |  |
|  | **Structure of collagen** |  |
|  | **Fluid mosaic model** |  |
|  | **Functions of albumin in the body.** |  |
|  | **WRITE BRIEFLY ON:** | **5x2=10** |
|  | **Functions of Thyroid stimulating hormone** |  |
|  | **Reverse transcriptase** |  |
|  | **Biochemical functions of zinc in the body** |  |
|  | **Oncogenes** |  |
|  | **Biochemical functions of estrogens**  **- - -** |  |

**503-A**

**M.B.B.S. DEGREE EXAMINATION – NOVEMBER, 2013**

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

**PHYSIOLOGY**

**PAPER-I**

**Time : 2 ½ Hours Max. Marks: 50**

**Answer all questions**

|  |  |  |
| --- | --- | --- |
|  | **Name the clotting factors. With the help of a schematic diagram, explain the mechanism of blood coagulation. Add a note on any two important bleeding disorders.** | **3+4+3=10** |
| **2)** | **Describe the composition, functions and regulation of secretion of pancreatic juice.** | **2+4+4=10** |
|  | **WRITE SHORT NOTES ON:** | **5x4=20** |
| **3)** | **Movements of small intestine** |  |
| **4)** | **Second Heart Sound** |  |
| **5)** | **Poiseuille’s Hagen formula in circulation** |  |
| **6)** | **Juxtaglomerular apparatus** |  |
| **7)** | **Pace maker potential** |  |
|  | **WRITE BRIEFLY ON:** | **5x2=10** |
| **8)** | **Functions of lymph** |  |
| **9)** | **Secondary active transport** |  |
| **10)** | **Chronic effects of hypocapnia** |  |
| **11)** | **Jugular venous pulse** |  |
| **12)** | **Hypoxia – Definition and types**  **- - -** |  |

**504-A**

**M.B.B.S. DEGREE EXAMINATION – NOVEMBER, 2013**

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

**PHYSIOLOGY**

**PAPER-II**

**Time : 2 ½ Hours Max. Marks : 50**

**Answer all questions**

|  |  |  |
| --- | --- | --- |
|  | **Draw a labelled diagram of muscle spindle. Explain the effects of stretch and stimulation of gamma motor neuron on spindle activity.** | **2+8=10** |
|  | **Discuss the hormonal, ovarian and uterine changes during menstrual cycle.** | **2+4+4=10** |
|  | **WRITE SHORT NOTES ON:** | **5x4=20** |
|  | **Refractive errors in eye and their correction** |  |
|  | **Hormones regulating plasma calcium level** |  |
|  | **Seminal fluid** |  |
|  | **Milk ejection reflex and parturition reflex** |  |
|  | **Diseases of basal ganglia** |  |
|  | **WRITE BRIEFLY ON:** | **5x2=10** |
|  | **Nerve action potential** |  |
|  | **Anti-inflammatory effect of glucocorticoids** |  |
|  | **Features of hypothyroidism in adults** |  |
|  | **Two common sleep disorders** |  |
|  | **Tympanic reflex**  **- - -** |  |