**501-A**

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

|  |  |  |
| --- | --- | --- |
|  | **Classify white matter of cerebrum. Write in detail about corpus callosum.** | **3+7=10** |
|  | **Describe the ulnar nerve under the following headings**  **a) Course**  **b) Relations**  **c) Branches**  **d) Applied anatomy** | **2+3+3+2=10** |
|  | **WRITE SHORT NOTES ON:** | **5x4=20** |
|  | **Ligamentum denticulatum** |  |
|  | **Maxillary Air Sinus** |  |
|  | **Development of Hypophysis Cerebri** |  |
|  | **Microscopic Anatomy of Hyaline Cartilage** |  |
|  | **Nasopharynx** |  |
|  | **WRITE BRIEFLY ON:** | **5x2=10** |
|  | **Chorion** |  |
|  | **Artery of cerebral Hemorrhage** |  |
|  | **Prochordal plate** |  |
|  | **Actions of Thenar muscles** |  |
|  | **Corpora Quadrigemina**  **- - -** |  |

**502-A**

**M.B.B.S. DEGREE EXAMINATION – JULY, 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 arches of foot and its applied Anatomy** | **6+4=10** |
|  | **Describe the visceral surface of the liver. Add a note on the development and microscopic appearance of liver.** | **4+3+3=10** |
|  | **WRITE SHORT NOTES ON:** | **5x4=20** |
|  | **Coronary Sinus** |  |
|  | **Internal Mammary Artery.** |  |
|  | **Development of Pancreas** |  |
|  | **BARR - BODY** |  |
|  | **Relations and Histology of Ovaries** |  |
|  | **WRITE BRIEFLY ON:** | **5x2=10** |
|  | **Pleural recesses** |  |
|  | **Foramen of Winslow** |  |
|  | **Cruciate anastomosis** |  |
|  | **Tensor Fascia Lata** |  |
|  | **Sinuses of Pericardium** |  |

- - -

**500-A**

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

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

**BIOCHEMISTRY**

**PAPER-I**

**Time : 2 ½ Hours Max. Marks: 50**

**Answer all questions**

|  |  |  |
| --- | --- | --- |
|  | **Explain the reactions of citric acid cycle emphasizing energy yield and amphibolic use of intermediates. Add a note on the energetics.** | **6+4=10** |
|  | **Describe the ketogenesis pathway and explain its significance. What are the tests done to detect the presence of ketone bodies in urine?** | **5+4+1=10** |
|  | **WRITE SHORT NOTES ON:** | **5x4=20** |
|  | **Both cellulose and starch are homopolysaccharides of glucose yet humans digest only starch. Explain why?** |  |
|  | **Porphyrias** |  |
|  | **Type I glycogen storage disease.** |  |
|  | **Serum lipoproteins** |  |
|  | **High energy compounds** |  |
|  | **WRITE BRIEFLY ON:** | **5x2=10** |
|  | **Explain why Thiamine deficiency is one of the causes for lactic acidosis** |  |
|  | **Effect of temperature on enzyme activity** |  |
|  | **Sources and deficiency manifestations of Vit.A** |  |
|  | **Proenzymes** |  |
|  | **Name different types of α-Thalassemias** |  |

**500-B**

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

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

**BIOCHEMISTRY**

**PAPER-II**

**Time : 2 ½ Hours Max. Marks : 50**

**Answer all questions**

|  |  |  |
| --- | --- | --- |
|  | **With the help of a diagram, describe the process of transcription. Add a note on post transcriptional modifications.** | **6+4=10** |
|  | **Enumerate kidney function tests and liver function tests. Write in detail about one kidney function test and one liver function test.** | **2+2+3+3=10** |
|  | **WRITE SHORT NOTES ON:** | **5x4=20** |
|  | **Explain the absorption, transport and storage of dietary iron in the body.** |  |
|  | **Requirement, sources and biochemical functions of Selenium.** |  |
|  | **Describe Polymerase Chain Reaction (PCR) with diagram and list out two uses of it.** |  |
|  | **Compare and contrast (1 similarity and 2 differences) DNA polymerase and RNA polymerase** |  |
|  | **Androgens – Biosynthesis and Physiological and Biochemical functions.** |  |
|  | **WRITE BRIEFLY ON:** | **5x2=10** |
|  | **Chemical Carcinogens** |  |
|  | **Biochemical functions of oxytocin** |  |
|  | **How oxalates in diet inhibit absorption of iron and calcium ?** |  |
|  | **Define Osmolarity and Osmolality** |  |
|  | **Serum alpha fetoprotein and carcinoembryonic antigen**  **- - -** |  |

**503-A**

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

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

**PHYSIOLOGY**

**PAPER-I**

**Time : 2 ½ Hours Max. Marks: 50**

**Answer all questions**

|  |  |  |
| --- | --- | --- |
|  | **Name the blood group systems. Explain basis for its classification. Add a note on its clinical importance.** | **3+4+3=10** |
| **2)** | **Define cardiac out put, mention the factors affecting cardiac out put, describe one method of measurement of cardiac out put.** | **1+4+5=10** |
|  | **WRITE SHORT NOTES ON:** | **5x4=20** |
| **3)** | **Properties of cardiac muscle** |  |
| **4)** | **Composition and functions of Gastric Juice.** |  |
| **5)** | **Juxta medullary nephron** |  |
| **6)** | **Heat loss mechanism** |  |
| **7)** | **Secondary active transport** |  |
|  | **WRITE BRIEFLY ON:** | **5x2=10** |
| **8)** | **Land Steiner’s Law** |  |
| **9)** | **P.R Interval** |  |
| **10)** | **Artificial respiration** |  |
| **11)** | **Control of Salivary Secretion** |  |
| **12)** | **Respiratory distress syndrome**  **- - -** |  |

**504-A**

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

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

**PHYSIOLOGY**

**PAPER-II**

**Time : 2 ½ Hours Max. Marks : 50**

**Answer all questions**

|  |  |  |
| --- | --- | --- |
|  | **Define pain. Describe the pathway for pain sensation with neat diagram. Explain referred pain.** | **1+6+3=10** |
|  | **Name the hormones produced by supra renal glands. Describe the secretion regulation and action of any one of them.** | **2+8=10** |
|  | **WRITE SHORT NOTES ON:** | **5x4=20** |
|  | **Colour blindness** |  |
|  | **Hyperglycemic hormones** |  |
|  | **Excitation contraction coupling** |  |
|  | **Spermatogenesis** |  |
|  | **Contraceptive methods in females** |  |
|  | **WRITE BRIEFLY ON:** | **5x2=10** |
|  | **Tests for hearing** |  |
|  | **REM sleep** |  |
|  | **Corpus luteum** |  |
|  | **Myopia** |  |
|  | **Cretinism**  **- - -** |  |