501-A

M.B.B.S. DEGREE EXAMINATION – JULY/AUGUST, 2014

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 thyroid gland under the following headings:   1. Parts 2. Capsule 3. Relations 4. Blood supply 5. Applied anatomy | 1+1+4+2+2=10 |
|  | Describe ulnar nerve in the hand under the following headings:   1. Course and relations 2. Branches 3. Distribution 4. Applied anatomy | 4+2+2+2=10 |
|  | WRITE SHORT NOTES ON: | 5x4=20 |
|  | Inferior horn of the lateral ventricle |  |
|  | Geniculate bodies |  |
|  | Mesodermal derivatives of the first arch |  |
|  | Histology of Lymph node |  |
|  | Circle of Willis |  |
|  | WRITE BRIEFLY ON: | 5x2=10 |
|  | Nerve supply and actions of the cricothyroid muscle |  |
|  | Median cubital vein |  |
|  | Conus medullaris |  |
|  | Applied anatomy of scaphoid bone |  |
|  | Coracoid process of the scapula  --- |  |

502-A

M.B.B.S. DEGREE EXAMINATION – JULY/AUGUST, 2014

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 right atrium of the heart under the following headings:   1. External features 2. Openings 3. Interior 4. Development | 2+1+5+2=10 |
|  | Describe the stomach under the following headings:   1. Parts 2. Stomach bed 3. Arterial supply 4. Lymphatic drainage | 2+4+2+2=10 |
|  | WRITE SHORT NOTES ON: | 5x4=20 |
|  | Cruciate anastomosis |  |
|  | Tendo calcaneus |  |
|  | Klinefelter syndrome |  |
|  | Microscopic structure of ovary |  |
|  | Contents of the inguinal canal |  |
|  | WRITE BRIEFLY ON: | 5x2=10 |
|  | Development of urinary bladder |  |
|  | Movements of ankle joint |  |
|  | Boundaries and contents of adductor canal |  |
|  | Cervical pleura |  |
|  | Branches of inferior mesenteric artery |  |

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500-A

M.B.B.S. DEGREE EXAMINATION – JULY/AUGUST, 2014

FIRST M.B.B.S. EXAMINATION

BIOCHEMISTRY

PAPER-I

Time : 2 ½ Hours Max. Marks: 50

Answer all questions

|  |  |  |
| --- | --- | --- |
|  | What are the different types of lipoproteins? Discuss their role in cholesterol transport. | 5+5=10 |
|  | Describe the tricarboxylic acid cycle and explain its significance. Add a note on the energetics. | 3+3+4=10 |
|  | WRITE SHORT NOTES ON: | 5x4=20 |
|  | Porphyrias |  |
|  | Competitive inhibition with examples. |  |
|  | Calorific value. |  |
|  | Detoxification by conjugation. |  |
|  | Functions of Vitamin C. |  |
|  | WRITE BRIEFLY ON: | 5x2=10 |
|  | Essential fatty acids. |  |
|  | Sickle cell anemia. |  |
|  | Dietary fibre and its role. |  |
|  | Allosteric enzymes. |  |
|  | Define Epimers. Name two Epimers.  --- |  |

500-B

M.B.B.S. DEGREE EXAMINATION – JULY/AUGUST, 2014

FIRST M.B.B.S. EXAMINATION

BIOCHEMISTRY

PAPER-II

Time : 2 ½ Hours Max. Marks : 50

Answer all questions

|  |  |  |
| --- | --- | --- |
|  | What are the types of DNA? Describe the structure of B-DNA. How is DNA organized in the nucleolus? | 3+3+4=10 |
|  | Describe the various biochemical liver function tests. Explain the biochemical findings in different types of jaundice. | 5+5=10 |
|  | WRITE SHORT NOTES ON: | 5x4=20 |
|  | Role of lungs in maintenance of body pH. |  |
|  | Creatinine clearance |  |
|  | Polymerase chain reaction |  |
|  | Role of parathormone in calcium homeostasis |  |
|  | Tumor markers |  |
|  | WRITE BRIEFLY ON: | 5x2=10 |
|  | Anion gap |  |
|  | Mention four biochemical functions of zinc |  |
|  | Wobble hypothesis |  |
|  | Oncogenes |  |
|  | Maple syrup urine  --- |  |

503-A

M.B.B.S. DEGREE EXAMINATION – JULY/AUGUST, 2014

FIRST M.B.B.S. EXAMINATION

PHYSIOLOGY

PAPER-I

Time : 2 ½ Hours Max. Marks: 50

Note : Answer all questions

Give diagrammatic representation wherever possible

|  |  |  |
| --- | --- | --- |
|  | Define mean arterial blood pressure. Describe the various factors regulating it. | 2+8=10 |
| 2) | Describe the role of counter-current mechanism in kidney function. | 10 |
|  | WRITE SHORT NOTES ON: | 5x4=20 |
| 3) | Describe the role of T-lymphocytes in immunity. |  |
| 4) | Outline the steps of erythropoiesis. Explain the essential factors required for it. |  |
| 5) | Pharyngeal phase of deglutition. |  |
| 6) | Digestion and absorption of fats. |  |
| 7) | Haldane effect. |  |
|  | WRITE BRIEFLY ON: | 5x2=10 |
| 8) | Define facilitated diffusion. Describe factors affecting it. |  |
| 9) | Hypovolemic shock. |  |
| 10) | Cyanosis. |  |
| 11) | Physiological dead space. |  |
| 12) | Vitamin K dependant clotting factors.  - - - |  |

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M.B.B.S. DEGREE EXAMINATION – JULY/AUGUST, 2014

FIRST M.B.B.S. EXAMINATION

PHYSIOLOGY

PAPER-II

Time : 2 ½ Hours Max. Marks : 50

Note: Answer all questions

Give diagrammatic representation wherever possible

|  |  |  |
| --- | --- | --- |
|  | Describe the connections, functions of basal ganglia. Add a note on Parkinsonism. | 3+3+4=10 |
|  | Describe the actions and regulation of cortisol. | 6+4=10 |
|  | WRITE SHORT NOTES ON: | 5x4=20 |
|  | Define hypermetropia. Explain the method of its correction. |  |
|  | Role of cochlea in pitch discrimination. |  |
|  | Anterolateral sensory pathway and its functions. |  |
|  | Actions of estrogen. |  |
|  | Postural hypotension. |  |
|  | WRITE BRIEFLY ON: | 5x2=10 |
|  | Neuromuscular blocking agents. |  |
|  | Sex determination. |  |
|  | Role of Sertoli cells. |  |
|  | Motor aphasia. |  |
|  | Anosmia.  - - - |  |