501-A

DR. NTR UNIVERSITY OF HEALTH SCIENCES:AP:VIJAYAWADA-520 008

M.B.B.S. DEGREE EXAMINATION –AUGUST, 2015

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 the following headings:   1. Parts 2. Features of the dorsum 3. Nerve supply 4. Development | 1+3+3+3=10 |
|  | Describe the superolateral surface of the cerebrum under following headings:   1. Sulci 2. Gyri 3. Functional areas 4. Applied anatomy | 4+2+2+2=10 |
|  | WRITE SHORT NOTES ON: | 5x4=20 |
|  | Radial nerve in the spiral groove |  |
|  | Interossei muscles of the hand |  |
|  | Oblique muscles of the eyeball |  |
|  | Histology of a compact bone |  |
|  | Development of the pituitary gland |  |
|  | WRITE BRIEFLY ON: | 5x2=10 |
|  | Give nerve supply and actions of biceps brachii muscle |  |
|  | Name the branches of the third part of axillary artery |  |
|  | Name the structures in the lateral wall of cavernous sinus |  |
|  | What are the parts of the corpus callosum? |  |
|  | Name the structures inside the parotid gland  --- |  |

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M.B.B.S. DEGREE EXAMINATION – AUGUST, 2015

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 stomach under the following headings:   1. Ligaments related 2. Blood supply 3. Lymphatic drainage 4. Applied aspects | 2+3+3+2=10 |
|  | Describe the Sciatic Nerve under the following headings:   1. Root value 2. Course 3. Relations 4. Distribution 5. Applied Anatomy | 1+2+2+3+2=10 |
|  | WRITE SHORT NOTES ON: | 5x4=20 |
|  | Vermiform appendix |  |
|  | Posterior relations of left the kidney |  |
|  | Right coronary artery |  |
|  | Barr bodies |  |
|  | Histology of the testis |  |
|  | WRITE BRIEFLY ON: | 5x2=10 |
|  | Tibial collateral ligament |  |
|  | Development of the pancreas |  |
|  | Ligaments of the spleen |  |
|  | Boundaries of the transverse sinus of the pericardium |  |
|  | Structures passing through major openings of the diaphragm |  |

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M.B.B.S. DEGREE EXAMINATION –AUGUST, 2015

FIRST M.B.B.S. EXAMINATION

BIOCHEMISTRY

PAPER-I

Time : 2 ½ Hours Max. Marks: 50

Answer all questions

|  |  |  |
| --- | --- | --- |
|  | Write the glycolysis pathway in red blood cells. Add a note on 2,3 Bis phosphoglycerate formation and its importance. | 6+4=10 |
|  | Give an account of sources, chemistry, biochemical functions, deficiency diseases and daily requirement of Vitamin D. | 2+2+2+2+2=10 |
|  | WRITE SHORT NOTES ON: | 5x4=20 |
|  | Structure and classification of lipoproteins |  |
|  | Factors affecting enzyme activity |  |
|  | Fatty Liver |  |
|  | Functions and deficiency manifestations of Thiamine |  |
|  | Absorption of Monosaccharides |  |
|  | WRITE BRIEFLY ON: | 5x2=10 |
|  | List the primary and secondary bile acids |  |
|  | Calorific value |  |
|  | Write any four heteropolysaccharides |  |
|  | Steatorrhea |  |
|  | Define Xenobiotics and give two examples  --- |  |

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M.B.B.S. DEGREE EXAMINATION – AUGUST, 2015

FIRST M.B.B.S. EXAMINATION

BIOCHEMISTRY

PAPER-II

Time : 2 ½ Hours Max. Marks : 50

Note: Answer all questions

Draw diagrammatic representation wherever necessary.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Write in detail about urea cycle. Add a note on urea cycle disorders | 6+4=10 | |
|  | Write in detail about renal function tests | 10 | |
|  |  |  | |
|  | WRITE SHORT NOTES ON: | 5x4=20 | |
|  | Respiratory acidosis |  | |
|  | Lac operon |  | |
|  | Primary and secondary structures of proteins |  | |
|  | Alkaptonuria |  | |
|  | Functions of iodine and fluoride |  | |
|  | WRITE BRIEFLY ON: | 5x2=10 | |
|  |  |  | |
|  | Post transcriptional modifications | |  | |
|  | Isoelectric pH |  | |
|  | Active methionine |  | |
|  | Most commonly used tumor markers |  | |
|  | Normal serum levels of sodium, potassium, chloride and bicarbonate    --- |  | |

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M.B.B.S. DEGREE EXAMINATION – AUGUST, 2015

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 Cardiac output? Describe the various factors regulating cardiac output. | 2+8=10 |
| 2) | Describe the mechanism of Respiration. Define lung compliance. Mention any two conditions which reduce lung compliance. | 5+3+2=10 |
|  | WRITE SHORT NOTES ON: | 5x4=20 |
| 3) | Define ‘renal clearance’. What do PAH and inulin clearance indicate about renal function. |  |
| 4) | Describe the fate of hemoglobin of the damaged RBCs following hemolysis. |  |
| 5) | Outline intrinsic pathway of clotting. Add a note on anticoagulants. |  |
| 6) | Enterohepatic circulation and its physiological importance. |  |
| 7) | Functions, hormonal regulation of exocrine pancreatic secretion. |  |
|  | WRITE BRIEFLY ON: | 5x2=10 |
| 8) | Define diffusion. Describe any four factors affecting diffusion in terms of Fick’s Law. |  |
| 9) | Cause and normal duration of P-R interval |  |
| 10) | Draw a diagram for innervation of the urinary bladder. |  |
| 11) | Explain the proximal tubular handling of Na+. |  |
| 12) | Define ESR and mention its normal value. List any two factors that influence it |  |

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M.B.B.S. DEGREE EXAMINATION – AUGUST, 2015

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 and effects of cerebellar dysfunction. | 4+3+3=10 |
|  | Describe the actions and regulation of insulin. Explain the basis of polyphagia in diabetes mellitus. | 5+3+2=10 |
|  | WRITE SHORT NOTES ON: | 5x4=20 |
|  | Define myopia. Explain the method of its correction. |  |
|  | Functions of middle ear |  |
|  | Dorsal column-medial lemniscus pathway and its functions |  |
|  | Features of cretinism and its physiological basis |  |
|  | Actions of progesterone |  |
|  | WRITE BRIEFLY ON: | 5x2=10 |
|  | Resting membrane potential |  |
|  | Factors influencing spermatogenesis |  |
|  | Indicators of ovulation |  |
|  | Ageusia |  |
|  | Olfactory pathway  --- |  |