**501-A**

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA – 520 008

M.B.B.S. DEGREE EXAMINATION – DECEMBER, 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 shoulder joint under the following headings   1. Classification and articulating bones 2. Ligaments 3. Movements 4. Applied Anatomy | 2+3+3+2=10 |
|  | Describe the Cavernous sinus under the following headings:   1. Situation and extent 2. Relations 3. Tributaries 4. Applied anatomy | 2+4+2+2=10 |
|  | WRITE SHORT NOTES ON: | 5x4=20 |
|  | Facial artery |  |
|  | Histology of tongue |  |
|  | Development of the thyroid and parathyroid glands |  |
|  | III ventricle of the brain |  |
|  | Brachioradialis muscle – origin, insertion, nerve supply and actions |  |
|  | WRITE BRIEFLY ON: | 5x2=10 |
|  | Derivatives of the I pharyngeal pouch |  |
|  | Blastocyst |  |
|  | Mention intracerebellar nuclei |  |
|  | Medial geniculate body (nucleus) |  |
|  | Superficial branch of the ulnar nerve  --- |  |

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M.B.B.S. DEGREE EXAMINATION – DECEMBER, 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 the anal canal under the following heads:   1. Parts 2. Internal structure 3. Blood supply 4. Applied anatomy | 1+5+2+2=10 |
|  | Describe the gluteus maximus muscle under the following headings:   1. Origin 2. Insertion 3. Nerve Supply 4. Actions 5. Applied anatomy | 2+2+2+2+2=10 |
|  | WRITE SHORT NOTES ON: | 5x4=20 |
|  | Gall bladder |  |
|  | Histology of the supra renal gland |  |
|  | Prostatic urethra |  |
|  | Downs Syndrome |  |
|  | Cruciate ligaments of the knee joint |  |
|  | WRITE BRIEFLY ON: | 5x2=10 |
|  | Derivatives of the midgut |  |
|  | Costodiaphragmatic recess of pleura |  |
|  | Deep inguinal ring |  |
|  | Name the branches of femoral artery |  |
|  | Perineal body |  |

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

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

FIRST M.B.B.S. EXAMINATION

BIOCHEMISTRY

PAPER-I

Time : 2 ½ Hours Max. Marks: 50

Answer all questions

|  |  |  |
| --- | --- | --- |
|  | Describe the sources, dietary requirements, biochemical functions and deficiency manifestations of Vitamin A. | 4+4+2=10 |
|  | Describe the pathway of Ketone bodies synthesis and utilization. Add a note on ketoacidosis. | 6+4=10 |
|  | WRITE SHORT NOTES ON: | 5x4=20 |
|  | Lactose intolerance |  |
|  | Isoenzymes |  |
|  | Significance of Hexose Monophosphate Pathway  (HMP shunt) |  |
|  | Jaundice |  |
|  | Inhibitors of Respiratory chain |  |
|  | WRITE BRIEFLY ON: | 5x2=10 |
|  | Functions of essential fatty acids |  |
|  | Polysaccharides |  |
|  | Methemoglobin |  |
|  | Causes and clinical symptoms of Kwashiorkor |  |
|  | Cori cycle.  --- |  |

500-B

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

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

FIRST M.B.B.S. EXAMINATION

BIOCHEMISTRY

PAPER-II

Time : 2 ½ Hours Max. Marks : 50

Answer all questions

|  |  |  |
| --- | --- | --- |
|  | Describe in detail the biochemical functions of calcium in human body. Discuss the hormonal regulation of plasma calcium. | 5+5=10 |
|  | Describe the synthesis of DNA in detail with suitable diagram. | 10 |
|  | WRITE SHORT NOTES ON: | 5x4=20 |
|  | tRNA structure and function |  |
|  | Structure and classes of Immunoglobulins |  |
|  | Outline the steps of synthesis of urea |  |
|  | Blood buffers |  |
|  | Renal clearance tests |  |
|  | WRITE BRIEFLY ON: | 5x2=10 |
|  | Essential amino acids |  |
|  | What are oncogenes and give two examples |  |
|  | Write four causes for metabolic acidosis |  |
|  | Maple syrup urine disease |  |
|  | Mechanisms of transport across biological membranes  --- |  |

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M.B.B.S. DEGREE EXAMINATION – DECEMBER, 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

|  |  |  |
| --- | --- | --- |
|  | Draw a neat diagram showing the structure of respiratory membrane and write hemodynamic factors influencing the exchange of gases across the membrane. | 4+6=10 |
| 2) | Describe the regulation of different phases of gastric secretion. | 10 |
|  | WRITE SHORT NOTES ON: | 5x4=20 |
| 3) | Describe the role of B-lymphocytes in immunity. |  |
| 4) | ABO & Rh system of blood groups. |  |
| 5) | Anemic hypoxia. |  |
| 6) | Significance of P-R interval. |  |
| 7) | Ventricular systole |  |
|  | WRITE BRIEFLY ON: | 5x2=10 |
| 8) | Mention the factors effecting the GFR |  |
| 9) | Anaphylactic shock. |  |
| 10) | Mechanism of sweat secretion |  |
| 11) | Role of vasa recta in kidney. |  |
| 12) | Distribution of Body Fluids.  - - - |  |

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M.B.B.S. DEGREE EXAMINATION – DECEMBER, 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

|  |  |  |
| --- | --- | --- |
|  | Classify sensory receptors giving examples. Describe the mechanisms by which sensory system codes the sensory modality and stimulus intensity | 4+3+3=10 |
|  | Mention the formation, composition and functions of cerebrospinal fluid (CSF) | 3+3+4=10 |
|  | WRITE SHORT NOTES ON: | 5x4=20 |
|  | Dysmetria and Ataxia |  |
|  | Hypocalcemic tetany |  |
|  | Addison’s disease |  |
|  | Menopause |  |
|  | Prolactin |  |
|  | WRITE BRIEFLY ON: | 5x2=10 |
|  | Cryptorchidism |  |
|  | Antithyroid drugs |  |
|  | Neuroglia |  |
|  | Functions of iris |  |
|  | Satiety center  - - - |  |