

M.D. DEGREE EXAMINATION**BRANCH XVI – GERIATRICS****PAPER I – APPLIED BASIC SCIENCES IN GERIATRIC MEDICINE***Q.P. Code: 202059***Time: Three Hours****Maximum : 100 Marks****Write Notes on :****I. ANATOMY:****(4 x 5 = 20)**

1. Draw a section of the cord and identify the structures involved in Brown Sequard syndrome. What are the associated clinical deficits?
2. Draw a nephron. List the site of action of various diuretics.
3. Innervation of small muscles of the hand.
4. Classification of cervical lymph nodes.

II. PHYSIOLOGY:**(4 x 5 = 20)**

1. Red blood cell indices and their utility in evaluation of anaemia.
2. List the hormones secreted by the adrenal gland and their functions.
3. Oxy haemoglobin dissociation curve and its relevance in clinical practice.
4. Describe the process of bone remodeling.

III. BIO-CHEMISTRY:**(3 x 5 = 15)**

1. Hyperbilirubinemia – classification and approach to diagnosis.
2. Biochemical abnormalities in diabetic ketoacidosis and Hyperosmolar non ketotic coma.
3. Mechanism of action of Vitamin D.

IV. PHARMACOLOGY:**(3 x 5 = 15)**

1. Pharmacological treatment of Alzheimers dementia.
2. Lipid lowering agents.
3. Newer therapies for osteoporosis.

V. MICROBIOLOGY:**(3 x 5 = 15)**

1. Causes and diagnosis of acute viral hepatitis.
2. Common skin and soft tissue infections and the organisms causing them.
3. Microbiology of infective endocarditis.

VI. PATHOLOGY:**(3 x 5 = 15)**

1. Oesophageal changes due to chronic gastro oesophageal reflux disease.
2. Granulomatous inflammation etiology and evaluation.
3. Nephrotic syndrome – causes, classification and pathology.
