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Q.P. CODE: 112010 Reg. No: ..... First Year B.Sc Nursing Degree Supplementary Examinations April 2019 Physiology (2016 Scheme) Time: 3 Hrs Max. Marks: 75 Answer all questions Draw diagram wherever necessary Essay: (12) Describe the transport of oxygen and carbon-dioxide in the blood. Add a note on Oxygen Dissociation Curve. (4+4+4)Short essays: (2x7=14)Describe the different types of blood groups. Add a note on Rh incompatibility. (4+3)Define cardiac cycle and mention the duration. Describe the various events in the cardiac cycle. (3+4)Short notes: (5x5=25)Describe the waves of ECG and mention its uses. Excitation-contraction coupling. Composition and functions of cerebrospinal fluid. Describe the mechanism of inspiration and expiration. Visual pathway. Answer briefly: (3x4=12)Hormones regulating pancreatic juice secretion. Neuro-endocrine reflex. Spermatogenesis Differentiate between: (3x4=12)Diffusion and osmosis. Counter-current exchanger and counter-current multiplier. 14. First and second heart sound