GUJARAT TECHNOLOGICAL UNIVERSITY BPHARM – SEMESTER II • EXAMINATION – SUMMER • 2015 Subject code: 2220004 Date: 06-06-2015 Subject Name: Human Anatomy Physiology - II Time: 10:30 am - 01:30 pm **Total Marks: 80 Instructions:** 1. Attempt any five questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. Q.1 (a) Discuss mechanism and regulation of Respiration. 06 (b) Draw a well labeled diagram of Respiratory tract and explain it. 05 (c) Explain in brief: i) Hypoxia ii) Emphysema iii) Pneumonia iv) Tuberculosis 05 v) SARS **O.2** (a) Give a difference between sympathetic and parasympathetic nervous system **06** (b) Write composition and functions of CSF. 05 (c) Write a short note on Adrenergic transmission. 05 0.3 (a) Explain in detail Anatomy of Eye. 06 (b) Discuss the physiology of Hearing. 05 (c) Discuss the anatomy and physiology of medulla oblongata. 05 **O.4** (a) Explain in brief: i) Glaucoma ii) Diabetes mellitus 06 iii) Acromegaly (b) Draw a well labeled diagram of Nephron. 05 (c) Explain physiology of urine formation. 05 Q.5 (a) Discuss the synthesis, control and release of thyroid hormones **06** (b) Draw a well labeled diagram of Brain. 05 (c) Classify the neurons according to structure and function. 05 Q.6 (a) Discuss various methods of contraception. 06 (b) Draw a well labeled diagram of Female Reproductive System. 05 (c) Explain the spermatogenesis. 05 **Q.7** (a) Enumerate the various endocrine glands. Write the functions of glucocorticoids 06 (b) Draw a well labeled diagram of urinary tract and explain it. 05 (c) Explain in brief: i) EPSP ii) Gynecomastia iii) BBB iv) Oogenesis v) Otitis media 05
