## SUPPLEMENTARY DOCTOR OF PHARMACY

## First Year Pharm. D. :SUMMER- 2022 SUBJECT : HUMAN ANATOMY & PHYSIOLOGY

Day: Monday Time: 10:00 AM-01:00 PM Date: 12/9/2022 S-5724-2022 Max. Marks: 70 N.B.: Q.No.1 and Q.No.5 are COMPULSORY. Out of the remaining questions 1) attempt ANY TWO questions from each section. Answers to both the sections should be written in the SEPARATE answer books. 2) 3) Figures to the right indicate FULL marks. SECTION - I Answer **ANY FOUR** of the following: [08] Q.1 a) Explain the structure and functions of RBC. Explain with the help of figure and example of a positive feedback loop. iii) Define following terms: a) Arteriosclerosis **b)** Hypoxia. iv) Write compositions of cytosol. V) Explain the structure of spleen. vi) Draw neat labeled diagram of epithelial tissue. **b)** Classify joints in detail. [03] Draw a neat labeled diagram of respiratory system. Explain mechanism of [12] **Q.2** breathing and exchange of gases at lung and tissue level. Explain structure and functions of Muscular tissues. [07]Q.3 a) Explain homeostasis. [05]Write notes on **ANY THREE** of the following: [12] **Q.4** Hemostasis a) b) ECG Sodium Potassium ATPase pump c) d) Cardiac cycle and heart sounds Anatomy and functions of stomach SECTION - II [80]**O.5** a) Answer **ANY FOUR** of the following: Write negative control of hormones of anterior pituitary gland. i) Spermatogenesis. ii) iii) Drugs and Athletics in brief. iv) Functions of thyroid hormone. Various types of contraceptive devices. v) vi) Define renal clearance and kidney stones. [03] b) Explain in brief micturition. Draw and explain structure of Ear and add brief note on physiology of hearing. **Q.6** Draw structure of Eye ball with detailed functions of every organ. [07]**Q.7** a) Explain in detail physiology of vision. [05] b) Write notes on ANY THREE of the following: **Q.8** [12] Explain in detail Male Reproductive System Structure of Kidney and note on Active Reabsorption of salts b) e) Explain in detail structure of skin

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d) Limbic system

Structure and functions of spinal cord