BACHELOR OF DENTAL SURGERY (2008 COURSE) FIRST - B.D.S. : SUMMER -2022 SUBJECT : GENERAL HUMAN PHYSIOLOGY & BIOCHEMISTRY

Day: Wednesday Time: 09:00 AM-12:00 PM Date: 11/1/2023 S-3790-2022 Max. Marks: 70 **N.B.:** 1) All questions are **COMPULSORY**. 2) Figures to the right indicate FULL marks. 3) Draw neat labelled diagram WHEREVER necessary. Both the sections should be written in SEPARATE answer books. 4) **SECTION-I** Define blood pressure. Enlist various regulatory mechanisms of blood (10) Q.1 pressure. Describe baroreceptor mechanism in detail.(2+3+5) Describe composition, functions and regulation of salivary juice. (2+3+5)(10)Write notes on ANY THREE of the following: Q.2 (15)a) Functions of cerebellum b) Structure of sarcomere Various types of white blood cells and their functions c) d) Transport of oxygen from lungs to tissues **Q.3** Answer ANY FIVE of the following: (10)a) Define homeostasis b) Enlist hormones of posterior pituitary gland c) State uterine changes during menstrual cycle d) State any two properties of synapse e) Enlist steps of urine formation f) State actions of insulin **SECTION-II** Discuss the sources, RDA, Biochemical functions of calcium and phosphorus. **Q.4** (1+1+3+5)Add a note on regulation of serum calcium level. OR What is normal blood pH? Write the role of blood buffers and kidney in (10) (1+3+6)maintenance of acid base balance? (15)Write notes on ANY THREE of the following: Q.5 a) Urea cycle and its significance. b) Jaundice c) Amphibole role of TCA cycle d) Biologically important peptides (10)Answer **ANY FIVE** of the following: **Q.6** a) Enumerate hormones responsible for hyperglycemia b) Functions of serum iron c) Features of Genetic code d) Functions of phospholipids e) Define ketosis and name ketone bodies Enumerate four B complex vitamins with their active forms

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