SUPPLEMENTARY DOCTOR OF PHARMACY

First Year Pharm. D. :SUMMER- 2022 SUBJECT : MEDICINAL BIOCHEMISTRY

Day: Friday Time: 10:00 AM-01:00 PM Date: 16-09-2022 S-5726-2022 Max. Marks: 70 N.B.: 1) Q.No.1 and Q.No.5 are COMPULSORY. Out of the remaining questions attempt ANY TWO questions from each section. Answers to both the sections should be written in SEPARATE answer books. 2) Draw neat and labeled diagrams WHEREVER necessary. 3) 4) Figures to the right indicate FULL marks. SECTION - I **Q.1** A) Answer ANY FIOUR of the following: [80]What is transamination? i) Give biochemical role of biotin. ii) iii) How acyl-CoA transported to mitochondria? iv) What is nitrogen balance? v) How propionic acid is metabolized? vi) What is active absorption? **B)** What is Cori cycle? [03] **Q.2** Discuss reaction energetics of TCA cycle. [12] Q.3Write in detail about β -oxidation. a) [07]b) Give reactions of urea cycle. [05]Q.4 Write short notes on **ANY THREE** of the following: [12] Iso-enzymes a) **b)** Energy rich compounds c) Galactose tolerance testd) Cell membrane structure e) Electron transport chain **SECTION - II** [80] Q.5 A) Answer ANY FOUR of the following: What is urinary tract calculi? i) What is mutation? ii) c) Nucleoside Nitrogen base iii) Define: a) d) Nucleotide b) Nucleic acid iv) What is hyperbilirubinemia? What is DNA repair mechanism? v) vi) Enlist the normal and abnormal constituents. [03]**B)** Explain the estimation of sodium and potassium. [12] Explain in brief liver function test. **Q.6** Enumerate the functions of kidney. Write the test to assess renal functions. [07]**Q.7** a) [05]Describe in detail ELISA. b) Write short notes on ANY THREE of the following: [12] **Q.8** Pyrimidine metabolism Role of water and water balance b) c) Urine concentration test d) Lipoproteins Role of electrolytes in the body