SUPPLEMENTARY

MASTER OF PHARMACY (M. PHARM.) (CBCS-2019 COURSE) M.Pharm. Sem-II PHARMACEUTICAL BIOTECHNOLOGY: SUMMER- 2022 SUBJECT: BIOLOGICAL EVALUATION OF DRUG THERAPY

Day: Wednesday

Time: 10:00 AM-01:00 PM Date: 21-09-2022 S-20794-2022 Max. Marks: 75 N.B. 1) Q.1 and Q.5 are COMPULSORY. Out of the remaining attempt any TWO questions from each section. Figures to the right indicate FULL marks. 2) Answers to both the section should be written in **SEPARATE** answer book. 3) SECTION - I 0.1 Write the difference between pre-clinical testing and clinical testing. (08)What do you mean by bioassay? Describe different types of bioassays giving **Q.2** suitable examples. What are different sources of pyrogens? Describe the official tests to identify (15) 0.3 pyrogens in the parenteral formulation. **Q.4** Write note on any **TWO** of the following: (15)Recombinant Hormones a) Biomedicine in infectious disease b) c) LD 50 determination **SECTION - II** Discuss the parameters for evaluation of safety of vaccines. (07)**Q.5** Describe in detail the cellular mechanism of RNA interference and discuss its (15) **Q.6** significance. Write in detail applications of Pharmacokinetics in new drug development of (15) **Q.7** biopharmaceuticals and designing of dosage forms. Write notes on any **TWO** of the following: **Q.8** (15)Regulatory aspects of clinical testing a) Bioequivalence and its importance b) Antisense therapy c)