2104N272

Candidate's Seat No:_____

MSc Semester-3 Examination

504

Chemistry (0) EA - Med & Ind Chemistry

IMax. Marks: 70

April-2023 Time: 2-30 Hours! Que. I A Discuss phase I, II and III clinical trials. 7 marks **B** Discuss in brief about SAR and MOA. 7 marks 7 marks Discuss the SAR of 4-amino quinoline anti-malarial agents. B Write synthesis of 4-Chloro quinoline and chloramphenicol. 7 marks Que. 2 A Give synthesis of Thiopental, chlorozepan, and alprazolam. 7 marks B Give synthesis of methyl dopa, tolbutamide, and 7 marks acetazolamide. OR A Give synthesis of INH, DDS and Ethambutol. 7 marks Give synthesis of lidocaine, Ibuprofen, and pethidine. 7 marks Que. 3 A Write brief not on GLP and GMP. 7 marks B Write a note on the Patent and its importance in 7 marks Research and development/chemical industry. A What is MSDS and how it important in industry? 7 marks Write a note on various types of chlorinating agents used for 7 marks chlorination with suitable examples. Que. 4 A Write a note on HPLC. 7 marks B Write a note on Column and Paper Chromatography. 7 marks A Write a note on various filtration methods. 7 marks Write a note on extraction. 7 marks Answer any 5events) questions (2 marks each) 14 marks (i) When do we use GC and LC? (ii) By using which filter media, we can remove the bad odor from water? (iii) Define CADD. (iv) What is distillation? (\mathbf{v}) What is ADMET?. (vi) Discuss in brief drug-receptor interactions. (vii) Why reaction is faster in MW than in conventional heating? (viii) What is MCR? Why it is better than the multi-steps reactions? (ix) Write/Draw the structures of Penicillin-G and Chlorotetracycline. Define diuretic and hypoglycemic drugs. (\mathbf{x}) (xii) What are Psychoactive drugs?

(Xiii) What are QSAR and 3D-QSAR?

(xiv) What are SAR and MOA?