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Question Paper Code: 59922

B.E. / B.Tech. DEGREE EXAMINATION, DEC 2020

Elective

Chemical Engineering

15UCH922-DRUGS AND PHARMACEUTICAL TECHNOLOGY

(Regulation 2015)

Duration: 1.15 hrs

Maximum: 30 Marks

PART A - (6 x 1 = 6 Marks)

(Answer any six of the following questions)

1. One Becquerel (Bq) is equal to CO1- R
(a) S^{-1} (b) m (c) Kg (d) None of these
2. The evidence which indicates that a drug is stored extra vascularly is: CO1- R
(a) Small clearance (b) Small apparent volume of distribution
(c) Large apparent volume of distribution (d) Large clearance
3. Clinical trials for the import and manufacture of new drugs are to be carried out as per: CO2- R
(a) Schedule C and C1 (b) UGC guidelines (c) Schedule Y (d) None of these
4. Phase IV of clinical trial is performed CO2- R
(a) Before drug approval (b) After drug approval
(c) During pharmacological screening (d) During pharmacokinetic study
5. Drying of blood products and enzyme based preparation is carried out by CO3- R
(a) Vacuum drying (b) Fluidized bed drying (c) Lyophilization (d) Tunnel drying
6. Williamson Synthesis is used for the preparation of: CO3- R
(a) Aldehydes (b) Alcohols (c) Ethers (d) Amides

7. The Drugs and Magic Remedies (Objectionable Advertisements) Act 1954 applies to all except CO4- R
- (a) Dadra & Nagar Haveli (b) Jammu & Kashmir
(c) Andaman & Nicobar Islands (d) Puducherry
8. For increased production of penicillin by fermentation, the pH is maintained between CO4- R
- (a) 1 to 4 (b) 4.8 to 5.2 (c) 6.8 to 7.4 (d) 6 to 7
9. In UV spectrophotometer, the light source is CO5- R
- (a) Tungsten lamp (b) Sodium lamp
(c) Deuterium lamp (d) None of the above
10. Ion-exchange chromatography is used for the separation of CO5- R
- (a) Aldehydes (b) Aminoacids (c) Fatty acids (d) Hydrocarbons

PART – B (3 x 8= 24 Marks)

(Answer any three of the following questions)

11. Give the detailed account of the history of drug discovery CO1- U (8)
12. What are peptide hormones? Give the detail account of the various peptide hormones used as substitution therapy. CO2- U (8)
13. Write step by step procedure for esterification process and list out its applications. CO3- U (8)
14. List out the standards followed for hygiene and manufacturing practices in pharmaceutical industries CO4- U (8)
15. What are the causes of acid indigestion? and clarify the antacid activities CO5- U (8)

