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Reg. No. :

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Question Paper Code: 59922

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2019

Elective

Chemical Engineering

15UCH922-DRUGS AND PHARMACEUTICAL TECHNOLOGY

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

- One Becquerel (Bq) is equal to CO1- R
(a) S^{-1} (b) m (c) Kg (d) None of these
- 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
- 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
- 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
- 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
- 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 (5 x 2= 10 Marks)

11. Explain the term pharmacopoeia CO1- R
12. Express the solubility of an OMA in terms of its affinity CO2- R
13. Write short notes on barbiturates CO3- R
14. Define tablet coating. CO4- R
15. Explain the terms (i) Antiseptics (ii) Antacids. CO5- R

PART – C (5 x 16= 80 Marks)

16. (a) Give the detailed account of the history of drug discovery CO1- U (16)
 Or
 (b) Describe organic therapeutic agents and their uses. CO1- U (16)
17. (a) What are peptide hormones? Give the detail account of the various peptide hormones used as substitution therapy. CO2- U (16)
 Or
 (b) Explain in detail about the antibiotics and list out the type of antibiotics. CO2- U (16)
18. (a) Write step by step procedure for esterification process and list out its applications. CO3- U (16)

Or

- (b) Write in detail about the halogenation process used in the drugs industries. CO3- U (16)
19. (a) List out the standards followed for hygiene and manufacturing practices in pharmaceutical industries CO4- U (16)
- Or
- (b) Explain in detail about the coating pills and write the important of tablet coating. CO4- U (16)
20. (a) What are the causes of acid indigestion? and clarify the antacid activities CO5- U (16)
- Or
- (b) Give the detailed account of Polarimetry techniques used in pharmaceutical analysis. CO5- U (16)

