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Code No. 1198

FACULTY OF PHARMACY

B. Pharmacy IV/IV II – Semester (Supple.) Examination, April 2018

Subject: Pharmacoinformatics

Time: 3 Hours   Max. Marks: 70

Note: Answer all questions. All questions carry equal marks.

1. a) Define Database? Write about various types of databases.   7
   b) Write about Codd's rules.   7
   OR
   c) Write about database normalization.   7
   d) Write about Phylogenetic analysis?   7

2. a) What is sequence alignment? Explain dynamic programming method for
      sequence alignment.   14
   OR
   b) Write about storage and retrieval of information.   7
   c) Write about Hidden Markov Models and its applications.   7

3. a) Write about various types of drug information resources available. Explain with
      examples.   8
   b) Write a note on Barcodes.   6
   OR
   c) What is Pharmacy Automation? Write its application in medication dosage, filling
      and packaging, medication distribution and inventory control.   10
   d) Write a note on emergency treatment of poisoning.   4

4. a) Write about i) Genbank   ii) Cosmid Libraries   6
   b) What are DNA sequencing methods? Write about Maxam Gilbert and Sanger
      method for DNA sequencing.   8
   OR
   c) Write a note on following protein databases
      i) Prosite   ii)PDB   iii)SCOP   iv)CATH   14

5. a) What is SAR and QSAR? Write in detail about Hansch analysis and Free-Wilson
      analysis.   9
   b) Write a note on docking.   5
   OR
   c) Explain drug receptor theories with examples.   7
   d) Write a note on i) Energy minimization   ii) Bioisosterism   7

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