

Y M Rajulthamm

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST-1 EXAMINATION – February 2019

B.Tech VIth Semester

COURSE CODE: 16B11BI611

MAX. MARKS: 15

COURSE NAME: Computer Aided Drug Design

COURSE CREDITS: 04

MAX. TIME: 1 HR

*Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means. Attempt all parts of a question together.*

1. Describe the pipeline of drug design schematically and highlight the limitations of the current pipeline. **(4 Marks)**
2. (a) Define Fingerprint  
(b) Define Pharmacophore  
(c) What is Tanimoto coefficient?  
(d) Describe the application of structure based pharmacophore modeling with an example. **(1X4= 4 Marks)**
3. Name few chemical databases. Describe the data organization in PubChem. **(4 Marks)**
4. (a) Define QSAR.  
(b) Explain the difference between QSAR and QSPR.  
(c) Explain the workflow of QSAR model development. **(1X3= 3 Marks)**