GALGOTIAS UNIVERSITY

ADMISSION NUMBER

School of Medical and Allied Sciences

Master of Pharmacy in Pharmaceutics
Summer Term Examination - Jul / Aug 2024

Duration : 180 Minutes
Max Marks : 75

Sem II - MPC203T - Computer Aided Drug Design

General Instructions
Answer to the specific question asked
Draw neat, labelled diagrams wherever necessary
Approved data hand books are allowed subject to verification by the Invigilator

1)	Demonstrate the virtual screening concept of pharmacophore.	K2(2)
2)	Demonstrate the utility of homology model in drug design.	K2(2)
3)	Show the polar atoms with example.	K1(2)
4)	Demonstrate the identification of pharmacophore.	K2(2)
5)	Define high throughput screening.	K1(2)
6)	Demonstrate molar refractivity with example.	K2(2)
7)	Define computer added drug design.	K1(2)
8)	Demonstrate molecular mechanics.	K2(2)
9)	In rigid docking, which components of the molecular system are considered flexible?	K1(2)
10)	Recall the term target in drug discovery.	K1(2)
11)	Identify QSAR Equation with their application.	K3(5)
	OR	
	Apply the knowledge on rationale for QSAR analysis.	K3(5)
12)	Describe how you would integrate ADMET prediction data with experimental results in the drug development process?	K3(5)
13)	Examine the Drug-like properties with example.	K4(5)
14)	Evaluate the effectiveness of using ADMET prediction tools in early drug discovery compared to relying solely on experimental testing.	K3(5)
15)	Analyze the application of molecular modelling in drug discovery.	K4(5)
16)	Analyze Descriptors (Molecular properties) in QSAR.	K4(5)
	OR	
	Simplify drug receptor interactions with examples.	K4(5)
17)	Simplify pharmacophore mapping with example.	K4(5)
18)	Elaborate the virtual screening techniques with suitable example.	K6(10)
19)	Asses the different techniques used in CADD.	K5(10)

OR

Design a methodology to evaluate the historical development and current trends in QSAR research. K5(10)