Name:		
Enrolment		



No:

UNIVERSITY OF PETROLEUM AND ENERGY **STUDIES**

Online End Semester Examination, May 2020

Course: Drug Discovery and Development Semester: I Program: MSc Time 03 hrs.

Course Code: HSCR7006 Max. Marks: 100

SECTION A

- Each Question will carry 5 Marks
 Instruction: Complete the statemen

lead identification? c) Explain lipinski's rule.

S. No.	Question	CO
Q 1	The need of drug discovery is to a)	CO1
Q2	Protein target identification strategies are a)	CO2
Q3	Different stages in molecular docking method are a)	CO2
Q4	Most of the drugs interact with receptor through a)b) c)d) e)	CO1
Q5	Techniques used for lead identifications are a)b) c)d) e)	CO4
Q6	3D-QSAR studies include different physicochemical parameters including a)	CO3
	SECTION B	
	Each question will carry 10 marks Instruction: Write short / brief notes	
	Instruction. Witte short / brief hotes	
Q 7	a) What is lead identification in drug discovery? b) What is the role of virtual screening for	CO1

Q 8	a) Write down the different characteristics of drug target. b) What is the role of proteomics in target identification.	
Q 9	a) What do you mean by rational drug design? b) How Cimetidine drug was discovered through rational drug design approach?	
Q 10	a) What is QSAR? Explain the importance of QSAR for lead optimization. b) What is the difference between 2D-QSAR and 3D-QSAR study?	
Q 11	a) Discuss the importance of homology modelling? b) Briefly describe the method of homology modelling of a targeted protein.	CO4
	Section C	
	Each Question carries 20 Marks.	
2.	Instruction: Write long answer.	
Q12	a) Write down a flow chart of a drug discovery cycle. b) Describe the role of si RNA for target validation process. c) Write a short note on transgenic animals. OR a) What is pharmacophore mapping? b) Describe the method of pharmacophore mapping. c)	CO4