

Roll No.

SAP ID



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, July 2020
Open Book – Through Blackboard Learning Management System

Course: Pharmaceutical Sciences

Semester: IV

Course Code: CLNL2023

Programme: BSc LLB

Time: 03 hrs.

Max. Marks: 100

Instructions:

As this examination is non-proctored, the students are expected to demonstrate a very high degree of Academic Integrity and not copy contents from resources referred. Instructors would look for understanding of the concept by the students and any similarity found from resources online/ offline shall be penalized in terms of deduction of marks and even cancellation of paper in requisite cases. The online examination committee of the School would also look for similarity of two answer scripts and if answer scripts of two or more students are found similar, both the answer scripts shall be treated as copied and lead to cancellation of the paper. In view of the aforesaid points, the students are warned that they should desist from using any unfair means.

All Questions are Compulsory
Answer each question in not more than 500 words

S. No.		Marks	CO
1	Describe the significance of roots of plants. Explain in brief any four modifications of roots.	20	CO1
Ans.			
2	A) Calculate Mean Time Between Failures (MTBF), Mean Time to Repair (MTTR).and Up Time (UT) for February 2019 if there were 2 breakdowns of 100 and 140 min each. (Sunday is a holiday) B) Why these performance indicators are calculated during production?	20	CO4
Ans.			
3	What is the need of Drug Price Control Order? Which authority is responsible for ensuring implementation of DPCO and write its functions?	20	CO3
Ans.			
4	A patient is has symptoms like highly irregular heart beat cycle, heart rate of 190 beats per minute. Which types of drugs he should be treated with and explain in brief the mechanism of action of any two of their different classes?	20	CO1
Ans.			
5	A patient of drug addiction approaches to the rehabilitation centre. What steps you would follow to assess the patient as a counsellor?	20	CO2
Ans.			

I,, understand that submitting work that isn't my own may result in failure in this paper and I may also be subject to Disciplinary Proceedings as per the Academic Integrity policy of the University.