


Name:			
Enrolment No:			
UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, December 2022			
Course: BCA Program: Software Engineering & Project Management Course Code: CSEG 2008P		Semester: IV Time: 03 hrs. Max. Marks: 100	
Instructions:			
SECTION A (5Qx4M=20Marks)			
S. No.		Marks	CO
Q 1	Explain requirement process.	4	CO2
Q 2	Differentiate between Cohesion and Coupling.	4	CO3
Q 3	Define Data Dictionary.	4	CO2
Q 4	Illustrate the characteristics of the software?	4	CO1
Q 5	Describe Software Engineering.	4	CO1
SECTION B (4Qx10M= 40 Marks)			
Q 6	Explain in detail desirable characteristics of an SRS	10	CO2
Q 7	Discuss the use case scenario with an example. Or Differentiate between process and project.	10	CO2 OR CO4
Q 8	Discuss Prototype model with a neat diagram.	10	CO1
Q 9	Describe Halstead's software metrics.	10	CO3
SECTION-C (2Qx20M=40 Marks)			
Q 10	Calculate the cyclomatic complexity begin int x, y, power; float z; input(x, y); if(y<0) power = -y; else power = y; z=1; while(power!=0) { z=z*x;	20	CO4

	<pre> power=power-1; } if(y<0) z=1/z; output(z); end </pre>		
	Or		
	<p>Food Ordering System is a type of software that allows the manager of restaurants to manage and accept the placed orders over the Internet or in the restaurant. Demonstrate the working of the food ordering system by using DFD (Data Flow Diagram). Show different levels of DFD for Food Ordering System such as initial context Level 0 DFD, Level 1 DFD, Level 2 DFD.</p>	20	CO2
Q 11	Explain Blackbox testing techniques with example.	20	CO5