


Name:			
Enrolment No:			
UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, December 2023			
Course: Software Engineering & Project Mgmt.		Semester: III	
Program: B.Tech CSE		Time: 03 hrs.	
Course Code: CSEG2008		Max. Marks: 100	
Instructions: Explain in short. (60-70 words)			
SECTION A (5Qx4M=20Marks)			
S. No.		Marks	CO
Q 1	Elaborate the difference between ER Diagram and Data Flow Diagram.	4	CO1
Q 2	Describe the term Software Engineering with an appropriate example Also, specify the factors influencing the SE.	4	CO2
Q 3	Explain the meaning of SDLC. Also define the term SRS.	4	CO4
Q 4	Discuss the challenges faced by Software Engineering domain.	4	CO1
Q 5	Briefly discuss the types of Software Testing.	4	CO4
SECTION B (4Qx10M= 40 Marks)			
Instruction: Write brief notes. (100-150 words)			
Q 6	Explain the concept of the requirement gathering phase.	10	CO2
Q 7	Define Software Design Phase. Elaborate the Use case diagrams and DFD used in software engineering domain.	10	CO3
Q 8	Elaborate all the characteristics of a good SRS. Also, explain the characteristics of SE.	10	CO1
Q 9	Write all the steps followed by the Spiral Model. Also Define Software project planning	10	CO2
OR Explain the advantages and disadvantages of Waterfall model. Also specify the different prototypes employed in SE domain.			
SECTION-C (2Qx20M=40 Marks)			
Instruction: Write long answer. (Up to 350 words while explaining)			
There is no choice for question no.11.			

Q 10	<p>Explain the term, importance and steps for the Risk Management in SE. Also, Specify Role and responsibilities of Project manager.</p> <p style="text-align: center;">OR</p> <p>Explain the idea of Software testing and elaborate all the types. Also mention the difference between Verification and Validation.</p>	20	CO3
Q 11	<p>Elaborate the COCOMO Model with an appropriate diagram. Also, write the difference between black box testing and white box testing. (10+10)</p>	20	CO4