Name: Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES Online End Semester Examination, May 2020

Course: SEPM Semester: IV Program: B. Tech. CSE All Branches Time 03 hrs.

Course Code: CSEG 2008 Max. Marks: 100

SECTION A

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

S. No.	• Question		CO
Q 1	What is the appropriate pairing of items in the two columns listing various activities encountered in a software life cycle?		CO1
	P. Requirements Capture	1.Module Development and Integration	
	Q. Design	2.Domain Analysis	
	R. Implementation	3.Structural and Behavioral Modeling	
	S. Maintenance	4.Performance Tuning	
	(A) P-3, Q-2, R-4, S-1 (B) P-2, Q-3, R-1, S-4 (C) P-3, Q-2, R-1, S-4 (D) P-2, Q-3, R-4, S-1		
Q2	Explain what is meant by <i>PRODUCT</i> with reference to one of the eight principles as per the ACM/IEEE Code of Ethics? a) The product should be easy to use b) Software engineers shall ensure that their products and related modifications meet the highest professional standards possible c) Software engineers shall ensure that their products and related modifications satisfy the client d) It means that the product designed /created should be easily available		CO1
Q3	What is the appropriate pairing of items in the two columns listing various activities encountered in a software life cycle?		CO2
	P. Requirements Capture	1.Module Development and Integration	
	Q. Design	2.Domain Analysis	
	R. Implementation	3.Structural and Behavioral Modeling	
	S. Maintenance	4.Performance Tuning	
	(A) P-3, Q-2, R-4, S-1 (B) P-2, Q-3, R-1, S-4 (C) P-3, Q-2, R-1, S-4		

	Section C	
Q 11	A project of 32000 LOC is estimated. Compute effort, development time, productivity and Average Staff Size using the basic COCOMO [3+3+2+2]	CO4
Q 10	Project A with cash flows of -100000, 10000, 10000, 10000, 20000, 100000 and Project B with cash flows of -120000, 30000, 30000, 30000, 30000, 75000 for year 0, 1, 2, 3, 4 and 5 respectively are to be chosen. Which of these projects will be chosen on the basis of: a) Payback Period b)ROI c) NPV assuming 10% discount rate	
Q 9	List out operators and operands. Also compute the values of Program Length, Vocabulary, Program Volume, Difficulty, Estimated Program level and Effort. main() { int a, b, c, avg; scanf("%d %d %d", &a, &b, &c); avg = (a+b+c) / 3; printf("avg = %d", avg);}	
8 (How is RAD model different from Spiral	CO2
Q 7	What are the practices followed for requirement engineering	CO2
1. 2.	SECTION B Each question will carry 10 marks Instruction: Write short / brief notes	
	d) documentation	
	b) design c) analysis	
Q 6	Which one of the following is not a step of requirement engineering? a) elicitation	
	b) Maintainability c) Availability d) Both Portability and Maintainability	CO1
Q5	d) both in time & with acceptable quality Select the developer-specific requirement? a) Portability	
	a) in time b) with acceptable quality c) that is cost efficient	CO1
Q4	Purpose of process is to deliver software	

Q12	a)Define Project Management life cycle.(10 marks)	
	b). Differentiate risk avoidance from risk elimination.(10 marks)	
	OR	
	Differentiate BVA from EQP using a numerical solution.	