Name:

Enrolment No:



Semester: II

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

Online End Semester Examination, May/June 2021

Course: Object Oriented Analysis and Design

Program: BCA (IOT+BFSI)

Course Code: CSEG 1007

Time 03 hrs.

Max. Marks: 100

SECTION A

- 1. Each question will carry 5 Marks
- 2. Complete the statements / Select the correct answers

S. No.		CO
Q 1	and are examples of classifiers.	CO5
Q 2	The typical 7 phases of SDLC are listed in the following order,	CO1
Q 3	The four phases of rational unified process (RUP) are,,	CO2
Q 4	Select the interaction diagrams from the following list: a. Activity Diagram b. Sequence Diagram c. Use Case Diagram d. Communication Diagram e. State Machine Diagram f. Deployment Diagram g. Class Diagram	CO4
Q 5	List the 5 relationship types in UML,,,,,	CO2
Q 6	Select the implementation diagrams from the following list: a. Object Diagram b. Component Diagram c. State Machine Diagram d. Deployment Diagram e. Activity Diagram f. Sequence Diagram g. Use Case Diagram	CO3

SECTION B				
1. Each question will carry 10 Marks				
2. Instruction: Write short / brief notes. Make diagrams wherever needed.				
0.7	Draw the class diagram for a Hagrital Management Cystem with some classes. The diagram			
Q 7	Draw the class diagram for a Hospital Management System with some classes. The diagram should contain various relationship types at class level.	CO1		
	should contain various relationship types at class level.			
Q 8	Elaborate the task performed at various phases of RUP.	CO2		
		CO2		
Q 9	Make a sequence diagram for a hotel room reservation system. System may be operated using			
	a web based GUI. It should handle the reservation for multiple days after checking availability and other constraints.	CO3		
	and other constraints.			
Q 10	Draw an activity diagram for online order placing system.	CO3		
		003		
Q 11	Explain the terms- 'event', 'state' and 'signal'. Elaborate the use of state machine diagram with			
Q 11	a suitable example.	CO4		
SECTION-C				
1. Each question carries 20 Marks				
2. Instruction: Write long answers. Make diagrams wherever needed.				
Q 12	Recognize the use of component diagram. Elaborate its usefulness in modeling the physical			
Q 12	aspects of the system. Make a component diagram for a departmental store.			
	and the second s			
	OR	CO5		
	What are nodes? How are they connected with implementation discusses? Make a devicement			
	What are nodes? How are they connected with implementation diagrams? Make a deployment diagram for a typical web application.			
	diagram for a typical wee application.			