


Name:	
Enrolment No:	
UNIVERSITY OF PETROLEUM AND ENERGY STUDIES	
End Semester Examination, July 2020	
Course: Object-Oriented A & D Using UML	Semester: II
CourseCode: CSEG1007	Time: 2hours
Programme: BCA (IOT+BFSI)	Max. Marks:

- MC An event is an occurrence at a point in time Instantaneously with regard to the time scale another state all of the above Correct Incorrect happens may trigger a state to change to
- MC "To examine changes to the objects and their relationships over time, we use" state diagram Correct class diagram Incorrect object diagram Incorrect activity diagram Incorrect
- MC A thread ensures resource sharing cost effectivity all of the above Correct Incorrect concurrency Incorrect
- MC An object has state and identity" Correct "state and identity, but no behavior" Incorrect state Incorrect "state, behavior and identity" Incorrect state and behavior
- MC UML is restricted to object oriented languages only computer language Incorrect not restricticted to computer systems Correct none of the above Incorrect
- MC OOAD process starts with gathering the systems requirements deploying a working system Incorrect both (a) and (b) Correct none of the above Incorrect ends with
- MC Classes provide the metadata for atributes Incorrect the implementation of the methods Incorrect the signature for methods Correct all of the above
- MC Use case diagrams enables one to identify high-level functional requirements Incorrect provides client side stakeholders with big picture view of the system Incorrect are the basis from which detailed functional requirements are developed Incorrect all of the above Correct
- MC The similarity between deployment diagram and component diagram lies in the fact that both are implementation diagrams diagrams Incorrect none of the above Incorrect Correct both are same Incorrect both are UML

MC An object is a capsule that holds the object's internal state within its boundary the statement is true Correct the statement is false Incorrect the statement is partially false Incorrect the statement is partially true Incorrect

MC An actor can only be a human being Incorrect "can be a human, device, another system or time" Correct "can be a human, device or time" Incorrect can be a human or another system Incorrect

MC Which of the following statement(s) is true? use case describes an interaction between an actor and the system Incorrect use cases are functionalities in the system Incorrect both (a) and (b) Correct either (a) or (b) Incorrect

MC A process includes heap Incorrect data section Incorrect stack Incorrect all of the above Correct

MC A guard condition is a Boolean expression that must be true in order for a transition to occur Incorrect is checked only once Incorrect both a and b Correct none of the above Incorrect

MC Inheritance is exhibited in class diagrams only Incorrect use case diagrams only Incorrect both class and use case diagrams Correct "class, use case and activity diagrams" Incorrect

MC The fork() system call creates new process Correct replaces process' memory space with a new program Incorrect kills a process Incorrect none of the above Incorrect

MC Which of these is not related to activity diagram guard condition Incorrect synchronization bar Incorrect stop node Incorrect participant Correct

MC _____ are light weight processes objects Incorrect threads Correct classes Incorrect components Incorrect

MC Fork and join bars indicate concurrent flow of control Correct unorganized flow of control Incorrect linear flow of control Incorrect non-linear flow of control Incorrect

MC A swim lane diagram is an improvisation of object diagram Incorrect sequence diagram Incorrect state diagram Incorrect none of the above Correct

MC Class model captures the static structure of the system Incorrect provides a graphical representation of the system Incorrect are used for communicating with the customer Incorrect all of the above Correct

MC The benefit(s) of having threads is/are better responsiveness Incorrect resource sharing Incorrect scalability Incorrect all of the above Correct

MC Which statement/(s) is/(are) true? a value is to an attribute as a link is to an association Correct association classes can not have attributes Incorrect qualified associations give rise to ambiguity Incorrect all of the above Incorrect

- MC Generalization refers to data hiding Incorrect inheritance Correct
abstraction Incorrect encapsulation Incorrect
- MC A constituent part in composition can only belong to atmost one assemblyCorrect can
belong to as many assemblies Incorrect donot have a coincident lifetime with the assembly
Incorrect is not part of any assembly Incorrect
- MC An interface is a collection of operations used to specify the service of a class or component
Incorrect a stereotyped class with operations in appropriate compartment
Incorrect similar to an abstract class Incorrect all of the above Correct
- MC "Semantic relationship between two classifiers in which one specifies a contract and other
guarantees to carry it out without dictating its implementation, is known as
"
generalization Incorrect abstraction Incorrect realization Correct
encapsulation Incorrect
- MC Which statement(s) is/are true about links? a link is a physical or conceptual connection
among objects Incorrect a link is an instant of an association Incorrect both (a) and (b)
Correct none of the above Incorrect
- MC Which of the following is not an event type signal Incorrect change Incorrect
time Incorrect trigger Correct
- MC A guard condition can be a boolean expression Incorrect has to be a boolean
expression Correct is boolean only under specific conditions Incorrect nothing can be
said conclusively Incorrect
- MC Use case diagrams are part of interaction modeling Correct structural modeling
Incorrect behavioral modeling Incorrect architectural modeling Incorrect
- MC The _____ specifies how many of the parallel activities must have been processed state
Incorrect number of events Incorrect multiplicity indicator Correct number
of threads Incorrect
- MC A ____ is a connection point of an action for object input or output object point
Incorrect pin Correct action point Incorrect none of the above
Incorrect
- MC Example of interaction diagram is/are activity diagramIncorrect sequence diagram
Incorrect collaboration diagram Incorrect both b and c Correct
- MC "Transformation from sequence diagram to collaboration diagram is a
"
unidirectional function Incorrect bi-directional function Correct indefinite function
Incorrect both a and b Incorrect
- MC Which of the following statement/s is/are true Collaboration diagrams emphasize upon the
structure than the sequence of interactions Incorrect In sequence diagrams the order of
interactions is established by vertical positioning Incorrect in collaboration diagrams the
sequence is given by numbering the interactions Incorrect all of the above Correct

- MC Interaction diagrams should be used for describing the behavior of several objects within a single use case Incorrect for showing collaboration among objects Incorrect both a and b Correct none of the above Incorrect
- MC For precise definition of a single class behavior we should use class diagram Incorrect collaboration diagram Incorrect state diagram Correct deployment diagram Incorrect
- MC "For describing behavior across many use cases, we should use" activity diagram Correct sequence diagram Incorrect collaboration diagram Incorrect component diagram Incorrect
- MC _____ and _____ are examples of implementation diagrams use case and class diagrams Incorrect use case and component diagrams Incorrect deployment and state diagrams Incorrect component and deployment diagrams Correct
- MC "_____ models the high-level software components, and their interfaces" component diagram Correct deployment diagram Incorrect activity diagram Incorrect collaboration diagram. Incorrect
- MC "Source code, database tables and library files are examples of" components Correct nodes Incorrect actions Incorrect activities Incorrect
- MC Which of the following statement(s) is/are true? well defined interfaces are not required to access a component's operations Incorrect components are reusable and replacable Correct swim lane diagram describes the physical resources of the system Incorrect all of the above Incorrect
- MC Which diagram shows the physical arrangement of run-time computational resources collaboration diagram Incorrect component diagram Incorrect state diagram Incorrect deployment diagram Correct
- MC "A _____ is one, which has its own computational resources" component Incorrect terminal Incorrect node Correct dll file Incorrect
- MC A CRC card is used to represent a class of objects Incorrect behavior of objects Incorrect interaction between objects Incorrect all of the above Correct
- MC CRC cards that collaborate with one another should be merged into a single card Incorrect placed close together Correct placed one upon other Incorrect placed far from one another Incorrect
- MC CRC cards are anthropomorphic in the sense that they are portable Incorrect no computer program can catch the essence of the interactions forced by passing cards Correct it increases the level of involvement among team members Incorrect none of the above Incorrect

- MC _____ models a type of role that is external to the system and interacts with that system
 use case Incorrect activity Incorrect actor Correct participant
 Incorrect
- MC An actor has to be a human Incorrect may be a human Incorrect
 "may be a human a device, another system, or time" Correct has to be a system
 Incorrect
- MC A _____ actor initiates and controls the whole use case primary Correct secondary
 Incorrect tertiary Incorrect human Incorrect
- MC _____ determines how many objects might participate in the relationship cardinality
 Incorrect multiplicity Correct associatin Incorrect dependency
 Incorrect
- MC The _____ is concerned with the time and sequencing of the operations of the object class
 model Incorrect state model Correct interaction model Incorrect none of the
 above Incorrect
- MC A/An _____ disambiguates the objects for a "many" association end qualified association
 Correct association end name Incorrect association class Incorrect
 association Incorrect
- MC With the help of _____ we can reduce the multiplicity from "many" to "one" association
 Incorrect association end name Incorrect qualifier Correct none of the
 above Incorrect
- MC A/An _____ element is used to model complex relationships between three or more classes
 association Incorrect binary association Incorrect unary association
 Incorrect n-Ary Association Correct
- MC _____ It is used to represent whole-part relationship aggregation Incorrect
 association Incorrect composition Incorrect both a and c Correct
- MC Which of the following constraints hold good for aggregation? A constituent part can belong
 to at most one assembly Incorrect " Once a constituent part has been assigned an
 assembly, it has a coincident lifetime with the assembly" Incorrect both a and b
 Incorrect none of the above Correct
- MC Which of the following statements is true? Part can be shared by several wholes in
 aggregation Correct Parts can live independently in composition Incorrect Whole is solely
 responsible for creating and destroying objects in aggregation Incorrect all of the above
 Incorrect
- MC "Signal, change and time are examples of types of" events Correct states Incorrect
 messages Incorrect participants Incorrect