

2018

Time : 3Hrs

Full Marks': 80

*Candidates are required to give their answers in
their own words as far as practicable.*

The questions are of equal value.

Answer five questions in which Q. No. 1 is compulsory.

1. Choose the correct answer of the following:

(a) In UML diagrams, relationship between object and component parts is represented by

- (i) Ordination (ii) Aggregation
(iii) Segregation (iv) Increment

(b) A class consists of which of the following abstractions:

- (i) Set of the object (ii) Behaviors
(iii) Attributes (iv) All of the above

(c) Which diagram in UML shows a complete or partial view of the structure of a modeled system at a specific time?

- (i) Sequence diagram (ii) Class diagram
(iii) Collaboration diagram (iv) Object diagram

(d) What does a simple name in UML class and objects consist of?

P.T.O.

- (i) Letters
 - (ii) Digits
 - (iii) Punctuation characters
 - (iv) All of the above
- (c) Which of the following UML diagrams has a static view?
- (i) Collaboration diagram
 - (ii) Activity diagram
 - (iii) State-chart diagrams
 - (iv) Use-case diagrams
- (f) Use case diagram, Collaboration diagram, Sequence diagram and Activity diagram are considered as type of:
- (i) Structural diagram
 - (ii) Behavioural diagram
 - (iii) Non-behavioural diagram
 - (iv) Non-structural diagram
- (g) Which model shows the flow of object interactions?
- (i) Sequence model
 - (ii) Sub system model
 - (iii) Dynamics model
 - (iv) None of the above

- (h) UML stands for :
- (i) Unstructured modified language
 - (ii) Unified modeling language
 - (iii) Unified markup language
 - (iv) None of the above
2. What is UML? Discuss the various categories of UML diagrams. Explain any two of them with suitable example.
3. What is static behavior? Discuss the various techniques for documenting control.
4. Differentiate between them :
- (a) State-chart diagram and activity diagram
 - (b) Relationship and Aggregations
5. What do you mean by object-oriented modeling? Explain the different types of models for a system description.
6. What do you mean by sequence diagram? Draw a clear sequence diagram of e-ticket reservation.
7. What do you mean by Attributes? Discuss the properties of Attributes.
8. What is OOP's? Explain the various paradigm of OOP's in relation to UML with suitable example.
9. Write short notes on any two:
- (a) Association
 - (b) Documenting Rules

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Q.02

(c) OO Model

(d) Sub systems

Machine Perception
Authority to use
sensory input
The scene the observed
Aspects of the world
where as computer
is the power to analyse
visual input with or
about some problem

such as facial object, gesture, combining
Robotic Robotics is a machine
related to AI Robot requires
intelligence to handle tasks
such as object manipulation
and navigation along with
some problem of location, motion
planning and mapping
of AI is organize on the basis
on following four categories

- (I) Thinking humanly (II) Acting humanly
- (III) Thinking rationally (IV) Acting rationally