4. What are the different criteria for building the 00 model?

5. What are the requirements in use cases diagram?

6. What is static behaviour? Discuss the various techniques for documenting control.

7. How can identify dynamic behaviour? Discuss the relevant technique for the same.

8. What is system Design? Discuss about details of design.

9. Explain Subsystems, Aggregation, and Activity Diagram with the help of suitable examples.

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2021

BH-248

Time : 3 Hours

Full Marks : 80

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

All questions carry equal marks.

Answer any five questions in which Q. No.-1 is Compulsory.

1. Choose the correct Answer of the following:

(i) Which of the following UML diagrams has a static view?

(a) Collaboration
(b) Use case
(c) State chart
(d) Activity

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

(a) Sequence Diagram
(b) Collaboration Diagram
(c) Class Diagram
(d) Object Diagram

(iii) Which of the following diagram is time oriented?

(a) Collaboration

(b) Sequence

(c) Activity

(d) None of the mentioned

(iv) How many diagrams are here in Unified Modelling Language?

(a) Six

(b) Seven

(c) Eight

(d) Nine

(v) Which of the following is a structural model that demonstrates the other systems in the environment of the system being developed?

(a) System context model

(b) Interaction model

(c) Environmental model

(d) Both system context and interaction

(vi) Which of the following is not needed to develop a system design from concept to detailed object- oriented design?

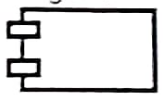
(a) Designing system architecture

(b) Developing design models

(c) Specifying interfaces

(d) Developing a debugging system

(vii) Which one element of UML is being shown in the figure?



(a) Node

(b) Interface

(c) Class

(d) Component

(viii) What type of core-relationship is represented by the symbol in the figure below?

(a) Aggregation

(b) Dependency

(c) Generalization

(d) Association

2. Explain class diagram and Collaboration diagram with the help of examples.

3. Write short notes on:

(a) Sequence diagram

(b) Communication diagram