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BACHELOR OF SCIENCE (COMPUTER SCIENCE) (CBCS - 2018 COURSE)
T.Y.B.Sc.(Computer Science) Sem-VI :SUMMER- 2022
SUBJECT : UNIFIED MODELING LANGUAGE

Day : Tuesday
Date : 12/7/2022

S-20131-2022

Time : 11:00 AM-02:00 PM
Max. Marks : 60

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N.B.:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Draw neat labeled diagram **WHEREVER** necessary.
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Q.1 Attempt **ANY TWO** questions of the following: (12)

- a) What is use case diagram in UML? What are the components of use case diagram? Give one example for use case diagram.
- b) Draw and explain different views supported by UML.
- c) Explain the goals of UML.

Q.2 Attempt **ANY TWO** questions of the following: (12)

- a) What is activity diagram in UML? Explain the components of activity diagram with suitable example.
- b) Explain association in UML by giving suitable example.
- c) Write a note on state chart diagram in UML.

Q.3 Attempt **ANY TWO** questions of the following: (12)

- a) What is role names in UML? What are the significance of role names?
- b) What is the purpose to draw the class diagram in UML? Draw class diagram for university examination system.
- c) What is a model in UML? Explain all the characteristics of model.

Q.4 Attempt **ANY THREE** questions of the following: (12)

- a) Draw a sequence diagram for issuing books from Library system.
- b) What is the use of extends relationship in use case diagram? How to represent extends relationship?
- c) Draw a deployment diagram for E-mail system.
- d) Write a note on system analysis.

Q.5 Attempt **ANY FOUR** questions of the following: (12)

- a) What is inheritance? List the types of inheritance.
- b) Give reason for 'classes and components realizes interfaces'.
- c) What is Rumbaugh methodology?
- d) Define polymorphism with one example.
- e) Write a short note on collaboration diagram.
- f) Write a short note on component diagram.

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