

Code No: **R41052**

R10

Set No. 1

IV B.Tech I Semester Supplementary Examinations, March - 2017

UML AND DESIGN PATTERNS

(Computer Science and Engineering)

Time: 3 hours**Max. Marks: 75**

Answer any FIVE Questions

All Questions carry equal marks

- 1 a) What is UML? What is the importance of modeling? Discuss. [8]
b) Explain about the Software Development Life Cycle. [7]
- 2 a) What is dependency? Discuss about different kinds of dependencies. [8]
b) Draw the class diagram for the Railway reservation system. [7]
- 3 Discuss about different diagrams in behavioral modeling with examples. [15]
- 4 a) What are the common modeling techniques for the Deployment diagram? Explain. [8]
b) Discuss about the component diagram with examples. [7]
- 5 a) What is catalog? How to organize catalog in Design pattern. [8]
b) How to classify the Design pattern? Explain. [7]
- 6 a) Explain about the design pattern which is aimed at decoupling the instantiation of your objects from the application code that uses them. [8]
b) Give the structure of the singleton implementation in PHP. [7]
- 7 a) What is wrapper? Discuss about it with example. [8]
b) What are the uses and motivation of the Composite pattern? Discuss. [7]
- 8 a) Explain about the chain of responsibility pattern? Discuss. [8]
b) What are the uses of command pattern? Write the structure for the command pattern? [7]