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Code No. : 312

VASAVI COLLEGE OF ENGINEERING (Autonomous), HYDERABAD
M.C.A. III Year I-Semester (Main) Examinations, Nov./Dec.-2016

Object Oriented Systems Development

Time: 3 hours

Max. Marks: 70

Note: Answer ALL questions in Part-A and any FIVE from Part-B

Part-A (10 × 2 = 20 Marks)

1. What are the basic features of object orientation?
2. What is component?
3. How do we model the behavior of an element?
4. Illustrate the concept of time and space.
5. Define the term "Deployment".
6. What is artifact diagram?
7. What is meant by life of a process?
8. What are the four P's in the software development?
9. List various workflows.
10. What is a domain model?

Part-B (5 × 10 = 50 Marks)

11. a) Define class diagram. Explain how to model a class diagram with examples. [6]
b) Explain the UML approach to software architecture. [4]
12. a) What is activity diagram? Explain the concepts related to it with examples. [6]
b) Explain state chart diagram contents and uses. [4]
13. a) Discuss the common modeling techniques for patterns in UML. [5]
b) Explain modelling the forward and reverse engineering of artifacts. [5]
14. a) Explain how the unified process is iterative and incremental. [6]
b) Explain the use case driven development. [4]
15. a) Compare usecase model to analysis model. [5]
b) Discuss the role of workers in the implementation workflow. [5]
16. a) What is the significance of importing and exporting with regard to package? [4]
b) Draw a state diagram for student object, who applies, take admission and finally graduates. [6]
17. Answer any *two* of the following:
a) Define the term "collaboration". Explain the concepts that are related to it. [5]
b) Explain the architecture centric concept of the unified process. [5]
c) Explain the term testing. What are the various types of testing? [5]

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