

JK LAKSHMIPAT UNIVERSITY, JAIPUR

INSTITUTE OF ENGINEERING AND TECHNOLOGY

End Term Examination (Regular/Backlog), Nov.-Dec. 2015

B. Tech in Computer Science Engineering, Semester 7th

Roll No.....

CSE732: Object Oriented Analysis & Design

Time: 3 hours

Max. Marks: 100

Instructions to students:

1. Do not write anything other than your roll number on question paper.
2. Assume suitable data wherever required and mention it clearly.
3. Writing appropriate units, nomenclature, and drawing neat sketches/schematics/ flow chart wherever, required are an integral part of the answer.

Q.1A Objective type multiple choice questions (10 questions @ 1 mark)

10

- i. An object is considered external entity in object oriented modeling provided
 - (a) its attributes are invariant during operation of the system
 - (b) its attributes changes during operation of the system
 - (c) it has numerous attributes
 - (d) it has no attributes relevant to the system
- ii. The expansion of the acronym CRC is
 - (a) Collecting Responsibilities Classes
 - (b) Collaborating with Relevant Classes
 - (c) Class Responsibilities and Collaborators
 - (d) Creating Relevant Classes
- iii. Well designed class models tend to use _____ coupling.
 - (a) Strong
 - (b) Neither strong nor week
 - (c) Week
 - (d) Both week or strong
- iv. Which of the following is not a diagram typically used in OOAD?
 - (a) Enterprise life cycle
 - (b) Use case
 - (c) State diagram
 - (d) Activity diagram
- v. Which of the following is a static diagram?
 - (a) Use case
 - (b) Deployment diagram
 - (c) Activity diagram
 - (d) Collaboration diagram
- vi. Which of the following is not done in OOAD?
 - (a) Requirement capture
 - (b) Modeling requirements
 - (c) Activity diagram
 - (d) Coding
- vii. Which of the following is an example of a boundary class?
 - (a) Student
 - (b) Faculty
 - (c) uiAttendanceEntry
 - (d) Attendance
- viii. Which of the following is not a stage in SLDC?
 - (a) Prototyping
 - (b) Requirement gathering
 - (c) System development
 - (d) Testing
- ix. Which of the following is part of the environment for the system?
 - (a) Input
 - (b) Output
 - (c) Control
 - (d) Suppliers

- x. Which of the following is not an integrity constraint?
- | | |
|-----------------|---------------|
| (a) Referential | (c) Domain |
| (b) Dependency | (d) Operation |
- Q.2 Short answer type questions (4 questions @ 2.5 marks) 10
- (a) What is an object?
- (b) What is a class?
- (c) What is an attribute?
- (d) What is a method?
- Q.3A What is the difference between interface and association? 05
- Q.3B What is the emergent property of a system. Give an example. 05
- Q.4A What are the different approaches for UI design? How are these different? 05
- Q.4B What is operation logic? Explain with an example. 05
- Q.5A Pick an information system and describe 5 requirements. 05
- Q.5B For any two requirements from above five, develop use cases. 05
- Q.6A Draw collaboration diagram for one of the use cases from above. 05
- Q.6B Draw class diagram for the above collaboration diagram. 05
- Q.7A Draw state diagram for one of the objects. 05
- Q.7B Draw an activity diagram for any of the processes. 05
- Q.8A Take the above example and conclude the design process. Draw the necessary diagrams. 10
- Q.9A How is SDLC different from OOAD? In what conditions these should be selected? Give unique advantages of each of the approach. 10
- Q.9A Discuss the object oriented analysis stages with the help of an example. 10
- OR
- Q.9B Discuss the object oriented design stages with the help of an example. 10