



Centre for Distance Learning

(Approved by Joint Committee of UGC-AICTE-DEC)

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SPDCA 301- OBJECT ORIENTED ANALYSIS AND DESIGN

ASSIGNMENT- 1 5 X 3 =15 Marks

1. Discuss in detail about Object Oriented Database Management Systems
2. Explain the various relationships in UML briefly
3. Briefly explain how to map objects to Relational database
4. Design a online voting system using functional modeling
5. List the modeling techniques used in OMT. Explain the purpose of functional modeling.

ASSIGNMENT- 2 5 X 3 =15 Marks

6. Describe the UML deployment and component diagram for banking system
7. Explain the different approaches used in analyzing use cases. How are use cases realized? Explain with a case study
8. Explain the architecture of OODBMS for library management system
9. Explain the different phases in unified process
10. Draw and explain sequence diagram for telephone dialing (landline) consider all possible states

MCA-3

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SPDCA 302- ARTIFICIAL INTELLIGENCE & KNOWLEDGE MANAGEMENT

ASSIGNMENT- 1 5 X 3 =15 Marks

1. Design an intelligent system for a semantic network
2. Describe the truth-table enumeration algorithm for deciding the propositional entitlement
3. Explain the need of Fuzzy set and Fuzzy logic with example
4. Explain the concept of learning using decision trees and neural network approach
5. Discuss map coloring algorithm using constraint satisfaction problem. Explain its working

ASSIGNMENT- 2 5 X 3 =15 Marks

6. Explain advantages and disadvantages of BFS (Breadth First Search) and DFS (Depth First Search)
7. Explain in-detail about stastical learning methods and reinforcement learning
8. Write a program in LISP to show how multiple recursions can be implemented
9. Write a program in PROLOG and find GCD of given two numbers
10. Explain the concept of Bayesian network in representing knowledge in an uncertain domain

MCA-3

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SPDCA 303- ADVANCED INTERNET TECHNOLOGIES

ASSIGNMENT- 1 5 X 3 =15 Marks

1. What are the two ways used for servlet collaboration? Explain with example
2. Explain
 - i) Servlet architecture
 - ii) Servlet lifecycle
3. What is a custom tag in JSP? What are the components that makeup a tag library in JSP
4. Explain the lifecycle of stateless and stateful session bean
5. What is SSL? Describe briefly the two way SSL mechanism

ASSIGNMENT- 2 5 X 3 =15 Marks

6. Describe in detail about the structure of XML document with example
7. What is a Struts? Describe briefly its framework
8. What is service oriented architecture? Explain how web services use SOA frame work
9. Explain the concept of cloud computing and discuss the categories of cloud services
10. What is session tracking? Discuss different methods used for session tracking

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NOTE:

- 1) Last date for submission of assignments for all the courses paper is- 15.03.2018
- 2) Non-submission of assignments as per the scheduled dat mentioned above attracts a fine of Rs. 200/- upto 26.03.2018 per each assignment of a course / paper and under any circumstances the assignments will not be accepted from 27th March, 2018.
- 3) Assignments are to be written in the Book-lets provided by C and other formats are not accepted.
- 4) Answer all 10 questions, in a single book on

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