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08MAR/IAR21

Second Semester M.Tech. Degree Examination, June-July 2009
Advanced Computer Concepts for Automation

Time: 3 hrs.

Note: Answer any FIVE full questions.

Max. Marks: 100

- 1 a. Define automation. Explain the types of automation. (10 Marks)
b. Discuss the different types of computer networks and their topologies. (10 Marks)
- 2 a. Explain paradigm characteristics of POP and OOPS. (10 Marks)
b. Discuss the benefits and applications of object oriented program. (10 Marks)
- 3 a. What is inheritance? Explain the various forms of inheritance. (10 Marks)
b. What is polymorphism? Explain how real time and compile time polymorphism works. (10 Marks)
- 4 a. What are templates? Explain templates functions. (10 Marks)
b. Discuss the difference between C++ and JAVA. (10 Marks)
- 5 a. Discuss the characteristics of DBMS. (10 Marks)
b. Explain the classification of database management system. (10 Marks)
- 6 a. What are instances, schema and explain the three schema architecture of database. (10 Marks)
b. With a neat sketch, discuss the various notations used in E-R diagram. (10 Marks)
- 7 a. What are the different types of operating systems and explain their features. (10 Marks)
b. Discuss the operating system components. (10 Marks)
- 8 Write short notes on any four of the following :
a. Visibility mode in C++
b. Friend functions
c. Data warehouse
d. Components of VDU
e. Protocols. (20 Marks)
