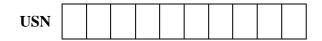
10MAR21

Max. Marks:100



Time: 3 hrs.

## Second Semester M.Tech. Degree Examination, June 2012 Advanced Computer Concepts for Automation

Note: Answer any FIVE full questions.

1	a. b. c.	Explain the various elements of an automated system. Write a note on display adapters and list any 4 video display modes with their reso Discuss the importance of computers in automation.	(08 Marks) lution. (08 Marks) (04 Marks)
2	a. b. c.	Compare procedure oriented and object oriented programming approaches. List eh applications of OOP. Mention the characteristic features and benefits of OOP.	(06 Marks) (04 Marks) (10 Marks)
3	a. b.	What is inheritance? Explain the various forms of inheritance. What is polymorphism? Explain the two different ways of achieving polymorphism	( <b>10 Marks</b> ) n. ( <b>10 Marks</b> )
4	a. b. c.	Explain the stream concepts in C++. Discuss the important features of JAVA. Compare JAVA and C++.	(06 Marks) (08 Marks) (06 Marks)
5	a. b.	Explain the database languages and interfaces provided by DBMS. Draw the E-R diagram for COMPANY database and discuss the various notation $E - R$ diagrams.	( <b>10 Marks</b> ) on used in ( <b>10 Marks</b> )
6	a. b. c.	Explain three – schema architecture, with the help of neat diagram. Explain the logical and physical data independence. Mention eth characteristics and advantages of DBMS approach.	(06 Marks) (04 Marks) (10 Marks)
7	a. b.	Define operating system. Discuss the concepts of multiprogramming, timesh distributed type of operating system, with help of diagrams. Explain the real time operating system and its two types with their applications.	aaring and (10 Marks) (10 Marks)
8	a. b.	Explain the operating system components. With the help of neat diagram, discuss the functions of FTP, HTTP, TCP and IP p the TCP/IP protocol model.	( <b>10 Marks</b> ) rotocols in ( <b>10 Marks</b> )

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