01656

PGDCA / MCA (I Year) / BCA

Term-End Examination

June, 2011

	CS-02: INTRODUCTION TO SOFTWAR	
Time: 2 hours Maximum Mark		
Note		uestion number 1 is compulsory. Attempt any three testions from the rest.
1.	(a)	Describe how fixed length record I/O and variable length I/O are implemented in UNIX system.
	(b)	Design an algorithm and draw a 7 corresponding flow chart to generate the fibonacci series.
	(c)	Write a shell program that counts the number of words and lines in a given text file.
	(d)	What is meant by Segmentation? With the help of a diagram, explain the address translation scheme in a segmentation system.
	(e)	Explain the processes involved in 7 Prototyping model. Also, differenciate between Unit testing and Integration testing with the help of an example for each.

- 2. (a) Explain the criteria to select a CASE Tool.6 Also, explain any two CASE Tools.
 - (b) How is a directory in WINDOWS 4 categorised in terms of its file structure? Explain with a diagram.
- 3. (a) List and explain the mechanism to support 5 the file protection in multiuser environment
 - (b) Define the purpose/use of following UNIX
 Commands. 5x1=5
 - (i) Cat
 - (ii) Pwd
 - (iii) echo
 - (iv) CC
 - (v) diff
- (a) What is deadlock? Explain the essential requirements or conditions for deadlock to occur.
 - (b) Explain the functionality and 4 implementation of two pass assembles.

- 5. (a) Construct context free grammer for the switch and if else statements as given in C language.
 - (b) Name and explain two disk allocation 5 methods. Mention their relative advantages and disadvantages.