2013

(December)

SYSTEM PROGRAMMING

Paper: CS 501

Full Marks: 100

Pass Marks: 30

Time: Three hours

The figures in the margin indicate full marks for the questions.

Answer any five questions.

- (a) Describe briefly Translation hierarchy of a program.
 - (b) Define and explain briefly various phases of Compiler with example. 10
- (a) Define Macro and with example differentiate
 Macro call and Macro definition.
 - (b) Explain the concept of Nested Macro call with example.
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Contd.

3.	(a)	Explain the structure of two pass Assembly and define various tables used for LC processing.
	(b)	Write the assembly code for calculating
		n!/2. 10 DVIMMANDORI MATEYS
4.	(a)	Write the various elements and types of
		Assembly language statement. 10
	(b)	Explain various functions of loader and its
		various schemes of loading. 10
5.	(a)	Write a shell script which will accept different numbers and find sum of digits.
	(b)	Write a shell script to print the first even
		and odd numbers less than 30. 10
6.	(a)	Explain in detail basic concept of UNIX
		Operating System, 10
	(b)	Write unix commands for the following:
		10 (a) Define Macro and with example diff
		(i) To count no of lines, words and character in a file
		(ii) Searching a pattern within a file

- (iii) To create a file system
- (iv) To set working environment.
- 7. Write short notes on the following:

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- (i) Macro Expansion
- (ii) CPU Scheduling
- (iii) Memory Management
- (iv) Functions of Operating System.