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53 (CS 501) SYPR

2014

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.

1. (a) Briefly explain compilation process with example. 10
- (b) Explain Translation hierarchy. 10
2. (a) Define Loader and explain various types of loading schemes. 10
- (b) Write the difference between Macro call and Macro definition. 10

Contd.

3. (a) What is nested macro ? Explain with example. 10
- (b) State *five* facilities provided by operating system to the user. 10
4. (a) Explain the purpose of pass 1 and pass 2 of assembler. 10
- (b) Define both the variants of Intermediate code generation with example. 10
5. (a) Define CPU scheduling and type of CPU scheduling. 10
- (b) Write a shell program to find the factorial of any given number. 10
6. (a) Write various features of unix operating system and define various types of file permissions with example. 10
- (b) Briefly explain file system and various operations for test manipulation in it. 10

7. Write short notes on the following : $5 \times 4 = 20$

- (i) Assembler
- (ii) Awk utility
- (iii) Macro expansion
- (iv) Interpreter.

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

- 1. (a) Briefly explain compilation process with examples. 10
- (b) Explain Translation library. 10
- 2. (a) Define Loader and explain various types of loading schemes. 10
- (b) Write the different types of macro call and Macro definition. 10