

Total No. of printed pages = 3

Co-402/SP/4th Sem/2014/N

SYSTEM PROGRAMMING

Full Marks – 70

Pass Marks – 28

Time – Three hours

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

Answer question No. 1 and any *five* from the rest.

1. (a) What are the steps involved in a program execution? 4
- (b) Illustrate the structure of a macro. 3
- (c) Differentiate between assembly language and high level language. 3
2. (a) What is a conditional assembly macro processor. 5
- (b) State the different addressing mode. 7
3. (a) What are recursive macros? 2

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- (b) Define : 6
- (i) Stack
 - (ii) Procedure
 - (iii) Queue.
- (c) Explain briefly two pass assembler. 4
4. (a) What are the data structure associated with two pass assembler ? Explain in brief. 3+7=10
- (b) What do you mean by forward reference ? 2
5. (a) What are the two variants of intermediate code ? 6
- (b) Compare the variants of intermediate code. 4
- (c) What is program relocability ? 2
6. (a) What are the different features of a loader ? 5
- (b) Describe the various loading schemes. 5
- (c) Define linker. 2

7. Differentiate :

3×4=12

- (a) Code optimization and code generation
- (b) Lexical analysis and syntax analysis
- (c) Macro and subroutine.