## Total No. of printed pages = 3 Co-402/Syst. Program/4th Sem/M/2013

## SYSTEM PROGRAMMING

Full Marks - 70

Pass Marks - 28

Time - Three hours

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

Answer any five questions.

- 1. (a) What is assembly level language? How does it differ from high level language? 4
  - (b) What is addressing mode? Explain with proper example the addressing modes—direct, indirect, index, autoincrement and autodecrement.
- (a) What do you mean by recursive macros?
   Give examples.
  - (b) Explain the terms: Stack, Program counter and Instruction register.

	(b)	Explain the algorithm of pass-I for two pass assembler.
4.	(a)	What is forward reference? How does it resolve in single pass assembler? 8
	(b)	What is Macro? How does it differ from subprogram?
5.	(a)	Explain the responsibilities of the linker and the loader in program development. 4
	(b)	What is relocation?
	(c)	Explain Absolute loaders, Relocating loaders and Linking loaders. 9
6.		at is a compiler ? Explain the phases of a npiler.

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(c) How does subroutine execute in a computer?

3. (a) What is the difference between one pass and

two pass assembler?

- 7. Write the meaning of the following terms: 14
  - (a) Symbol table
  - (b) Dynamic loading
  - (c) Bootstrap loader
  - (d) Parser
  - (e) Accumulator
  - (f) Data type
  - (g) Regular expression.