

[07 - 3116]

III/IV B.Tech. DEGREE EXAMINATION.

First Semester

Computer Science Engineering

Elective I - SYSTEMS PROGRAMMING (Grading)

(Effective from the admitted batch of 2006-2007)

Time : Three hours

Maximum : 70 marks

Question No. 1 is compulsory.

Answer any FOUR questions from the remaining.

All questions carry equal marks.

Answer ALL parts of any questions at One place.

1. (a) What is the difference between open subroutine and closed subroutine?
- (b) What is the interrupt structure of the machine?
- (c) What is the use of Base register?
- (d) Define location counter.
- (e) Define Macro Name Table.
- (f) Define Binders.
- (g) What are the uses of editors?

2. (a) Draw micro flow chart for ADD instructions and explain each step.
(b) Describe basic 360 instruction formats.
 3. (a) Explain Pass 1 and Pass 2 data bases used in assembler design.
(b) Draw a flow chart for single pass assembler. Explain each step in the flow chart.
 4. Explain features of a macro facility with suitable examples.
 5. Describe a two-pass algorithm of macro processor.
 6. Discuss the design issues of direct linking loaders.
 7. (a) Explain types of loaders.
(b) Describe the features of Text editors.
 8. (a) Explain the procedure to develop program generators.
(b) What features should be considered to generate Debug Monitors? Explain.
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