T.E. sem 6 (Rev.) 602 : E-1stHf08. Comb

Systems Programming

02/6/08

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Con. 2719-08.

(REVISED COURSE)

CO-2893

(3 Hours)

[Total Marks: 100

- N.B. (1) Question No. 1 is compulsory.
 - (2) Attempt any four questions out of remaining six questions.
 - (3) Assumptions made should be clearly stated.
 - (4) Figures to the right indicate full marks.
 - (5) Assume suitable data wherever required but justify the
- 1. (a) Explain with the help of flowchart and databases, working or two pass assembler. 10
 - (b) Explain operator precedence parser with suitable example.

(a) Explain different features of macro facility. 10

(b) (i) Consider the following grammar and show the handle of each right sentential 10 form for string (a,(a,a)).

$$S \rightarrow (L)$$
 a $L \rightarrow L, S$ S

(ii) Write note on 'MS-DOS linker

- (a) Explain the features of SunOS SPAR assembler. 10
 - (b) Explain single pass algorith for macro definitions within macro.

(a) Explain syntax directed translation. Give syntax directed definition to translate infix 10 expressions to postfix expressions.

(b) Explain design of about te loader.

(a) Explain the design of direct linking loader. 10

no storage organization in detail. (b) Explain run tic

following grammar and construct the LALR parsing table. (a) Consider the 10

$$S \rightarrow AA$$

$$A \rightarrow aA \mid b$$

(b) Explain different types of text editors.

Write detailed notes on any two :-20

- - (a) Dynamic loading and dynamic linking
 - (b) Macro assemblers
 - (c) LEX and YACC.