Example.

## J. F. Comp VI (Rev) Lystem Recgeamming & Complier Construction

Con. 3635-11.

## (REVISED COURSE)

RK-2634

(3 Hours)

[Total Marks: 100

N.B.: (1) Question No. 1 is compulsory. Attempt any four questions from the remaining six questions. (2) Assumptions made should be clearly stated. (3) Figures to the right indicate full marks. Q. 1) A) Explain local code optimization in brief. 5 B) Define Macro, Explain macro calls within macro giving example. 5 C) Define Loader. Explain the functions of a loader in brief. 5 D) Explain the dangling references in run time storage allocation with example. 5 Q. 2) A) Explain the working of a single pass macro assembler with the help of a neat flowchart. 10 B) Explain the LR parser. Write an algorithm for it. Show the working of this algorithm with an example. 10 Q. 31 A) Explain the working of a direct linking loader with a proper example. Clearly show the entries in the different databases built by the direct linking loader. 10 10 Explain the different types of intermediate code representation. Q.4) A) Explain the databases used by each pass of the 2-pass assembler. Explain how these databases are used by the 2-pass assembler when it processes the source program with an example. Clearly show all the entries in the databases built by 10 the 2-pass assembler. B) What is ambiguity? Explain the techniques to eliminate the ambiguity with an

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Q. 5)		
A) What is binding? Explain the static and dy	namic binding.	10
B) Explain the working of linkage editor in th	ie system programming.	10
Q. 6)		
A) Define cross compiler. Explain in brief wh	at activities are performed in various pl	rases
of the compiler.		10
B) What is Relocation? Explain in brief vario	us types of loaders with their	
Advantages and disadvantages.		10
Q. 7) Write a short a note on the following:		-20
A) Syntax directed translation.		
B) Lexical analysis		
C) Heap allocation		
. D) YACC		