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### B. E. (Eighth Semester) Examination, April-May 2021

(New Scheme).

(CSE Engg. Branch)

#### SOFTWARE TECHNOLOGY

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: Attempt all questions. All questions have four parts. Part (a) is compulsory of 2 marks.

Attempt any two parts from part (b), (c) and (d) of 7 marks each.

# -Marie Willer Danie Unit-I

- 1. (a) What is object file format?
  - (b) Define Addressing mode? Explain the classification of addressing modes in detail?

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	(c) Explain the different types of register used in	
	assembly language programming.	7
	(d) Describe the process of designing of Assembler in	
	detail.  Of yelf-dirg/contentmined (rutesmore studged) Al.	7
	Unit-II	
2.	(a) Differentiate between linker and loader.	2
	(b) Explain the different types of loader in detail.	7
	(c) Describe the Position Independent Code.	7
	(d) What are different loader design option explain in brief?	7
	Unit-III	
3.	(a) What is macro? How does it different from its subprogram?	2
	(b) What are the major data structures used in macro-processor? Explain in detail.	7
	(c) What are different macro processing techniques?	7

### [3]

(d)	Describe	the	different	macro	processor	design
	options.					

### **Unit-IV**

4.	(a)	Why we need a compiler in any operating system?	2
	(b)	What is optimizing transformation? Explain in detail.	7
	(c)	Generate the three address code for following code	
		$-(a\times b)+(c+d)-(a+b+c+d)$	7

### **Unit-V**

- 5. (a) Define Text editor. (b) What do you mean by check points and reverse execution? Give the context of debugger. 7 (c) Explain I detail data structure for text sequences. (d) Write short notes on the following:
  - (i) Gap method

(ii) Array method