300855(22)

B. E. (Eighth Semester) Examination, Nov.-Dec. 2021

(New Scheme)

(AEI, Bio Tech., Chem., Civil, CSE, Elect., EEE, EI, ET&T, IT, Mech., Mining, Metallurgy, Mechatronics, Prod., Automobile Branch)

SOFTWARE TECHNOLOGY

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: In all unit part (a) is compulsory and attempt any two parts from (b), (c) and (d).

Unit-I

- 1. (a) What is Assembly Language Programming?
 - (b) What is Assembler Design? Explain Assembler Design process in detail.

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7

	(c)	What are the addressing modes available in assembly	
		language.	7
	(d)	What is Assembler Directives? Explain any five	
		assembler directives with example.	7
		Unit-II	
2.	(a)	What is Shared Library Linking?	2
	(b)	What is Linker in the terms of software technology?	
		Explain the combining object modules.	7
	(c)	What is Library Linking? Explain Position Independent	
		Code (PIC) in detail.	7
	(d)	What is Loader? Explain the types of Loader in detail.	7
		Unit-III	
3.	(a)	What is major code fragment as a subprogram in the	
		terms of macroprocessor?	2
	(b)	What is Macroprocessor? Explain the macro-	
		processing technique in detail with example.	7
	(c)	Difference between Nested macros and Nested calls.	7
	(d)	Explain the design of macroprocessor in detail.	7
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Unit-IV

4.	(a)	Write all the step of complier.	2
	(b)	What is Lexical Analysis? Explain the role of Lexical Analyzer in detail, with proper example.	7
	(c)	Explain the intermediate code generation with proper example.	7
	(d)	What is optimizing transformation? Explain the major task to perform optimizing transformation with example.	7
		Unit-V	
5.	(a)	What is a basic categories of Text Editor?	2
	(b)	What is debugger? Explain the feature of debugger in detail.	7
	(c)	Write a short notes on:	7
		(i) Text document design(ii) Text view design	
	(d)	Explain data structure for text sequence in detail.	7