PRIYADARSHINI COLLEGE OF ENGINEERING, NAGPUR DEPARTMENT OF INFORMATION TECHNOLOGY

SEMESTER: III CAT-II (2023-24) ODD SEMESTER

Subject: System Programming Subject Code: BEIT305T Subject Code: BEIT305T Subject Code: BEIT305T Subject Code: BEIT305T		T' 100 H		
Note:	Wiax. Walks: 33	Time: 1.3	J Hrs.	
1) All Question are compulsory.				
2) All questions carry marks as indicated.				
Q. No. Questions Statement declare the name of macro		Marks	CO BL	
1. a. 1 A statement declare the name of macro.		1	3 1	
a) macro prototype				
macro definition c) macro identification				
d) None of the above				
The end of a sussession	the market of the second			
a. 2 The end of a macro can be represented by the directive END		1	3 1	
b) ENDS				
c) ENDM d) ENDD				
1. b Explain Conditional Macro expansion with example.		5	3 _ 2	
OR				
2. a. 1 If a number of instructions are repeating through the main prolength of the program, is used.	ogram, then to reduce the	1	3 2	
a) procedure		. 7	5 2	
b) subroutine				
c) macro d) none of the mentioned	CONTRACTOR CONTRACT	A Stallbrother		
a. 2 A macro can be used a) in data segment		1	3 1	
b) to represent directives				
c) to represent statements				
d) all of the mentioned				
GET MOT MOT and ALA for the following as 1. C				
2. b GET MDT, MNT and ALA for the following code fragment. MACRO		5	3 .2	
MACRO &A				
MACRO &B		, (2).		
& B & & C ST 15, A(& C)		10.5.0		
BALR 14, 15 L 1, = F' 3'		-1		
A 1. & C				
ST 1, & C			•	
MEND MEND				
PROG START BALR				
: XYZ MIT				
MIT HELLO HELLO DI				
DI DC F 10'				
3. a. 1 Load address for the first word of the program is called a) Linker address origin		1	4 1	
b) Load address origin			1	
c) Phase library	,			
d) Absolute library				

	a. 2	 A linker program a) places the program in the memory for the purpose of execution. b) relocates the program to execute from the specific memory area allocated to it. c) links the program with other programs needed for its execution. d) interfaces the program with the entities generating its input data. 	1	4	1
3.	b	Explain Binders and Module Loader in detail.	_		
٥.	c	Explain direct Linking loader scheme in detail.also discuss about all the cards in detail	5 7	4	2
		OR	,	, 4	2
1	. 1				
4.	a. I	Static memory allocation is typically performed during a) compilation	. 1	4	1
		b) execution			
		et loading			
		d) linking			
	a. 2	Relocatable programs	1	4	1
		a) cannot be used with fixed partitions	•	7	A
		b) can be loaded almost anywhere in memory c) do not need a linker			
	-	d) can be loaded only at one specific location			
4.	1	Define Loader? Explain task of Loader.	5	4	2
•	()	Define Boader: Explain task of Edader.	3	4	, 2
	_~	Explain Absolute Loader Scheme with advantages and Disadvantages.	7	4	2
5.	a. 1	An optimizer compiler	1	5	1
		a) is optimized to occupy less space			
		b) Is optimized to take less time for executionc) Optimizes the code			
		d) None of these			
	. Marine	A compiler is a program that		ani angana di internasion da	*
	a. 2	a) places programs into memory and prepares then for execution	1	5	1
		b) automates the translation of assemble language into machine language			
		 accepts a program written in a high level language and produces an object program appears to execute a resource as if it were machine language 			
		d) appears to execute a resource as if it were machine language			
5.	b	What is debugger & explain debugging procedure in detail.	5	5	2
	с	Differentiate between compiler & interpreter? Explain various data structures used	7	5	3
	C	in compiler design.	,	3	3
		OR			
6.	. 1	Which of the following is not a feature of compiler?	1	5	2
Ο.	a. I	a) Scans the entire program first and then translate it into machine code	•	3	2
		b) When all the syntax errors are removed execution takes place slow for debugging			
	4	d) Execution time is more			
,	a. 2	A compiler that runs on one machine and produces code for a different machine is called	1	5	1
		cross compilation	-	•	-
		b) one pass compilation			
		c) two pass compilation			
		d) none of these			
6.	25	Explain code optimization procedure in detail.	5	5	2
		What are Different phases of Compiler design.	~		