BCA (Honours) 5th Semester Examination, 2022

Subject: Computer Application

Course: BCA-501

(System Software)

Time: 4 Hours

Full Marks: 80

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words

as far as practicable.

Answer Question No. 1 and any four question from the rest.

1	1. Answer any eight questions:	2×8=16
	• (a) What is macro call?	2,10 10
	· (b) What is absolute loader?	
	· (c) What is linker?	
	• (d) What is system software?	
	(e) Give examples of markable interrupts.	
	•(f) What is token?	
	(g) Give one examples of 3-address code.	
	• (b) What is text editing?	
	• (1) What is symbol table?	
	· (g) What is Parsing?	
	(k) Which type of error cannot be checked by compiler?	
	(1) What are the difference between 8085 & 8086 Microprocessor?	
- 2.	. (a) Discuss the main functions of the different phases of compiler in brief with diagram	
- 2.	(a) Discuss the main functions of the different phases of compiler in orief with diagram(b) What is the difference between compiler and interpreter?	m. 12+4=16
		12+4=10
٠ 3.	. What is assembler? Explain pass-2 assembler in brief with suitable diagram.	4+12
• 4.	(a)Draw and explain the architectural diagram of 8086 microprocessor.	
	(b) Explain different types of addressing mode present in 8086 microprocessor.	10+6=16
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٠5.	What is general purpose macro processor? Write the advantages and disadvantages purpose macro processor. What is nested macro call?	or general
6.	(a)Discuss any two code optimization technique.	
-	(b) Write a short note on Directed Acyclic Graph (DAG).	8+8=16
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7.	(a)Illustrate S-Directed and L-Directed Translations in Syntax Directed Translation.	8+8=16
	(b) Briefly explain 3-address code representation.	0+0=10
8.	(a) Explain Shift Reduce Parsing. Illustrate with an example.	
	(b) What is LL parsing techniques? Illustrate with an example.	8+8=16