[Total No. of Questions - 9] [Total No. of Printed Pages - 3] (2063)

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## B.Tech 2nd Semester Examination Principles of Computer Programming and C++ BE-104

Time: 3 Hours Max. Marks: 100

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

**Note:** Attempt one question each from Sections A, B, C and D. Section E is compulsory.

## **SECTION - A**

- (a) Draw the block diagram of computer and explain its different components in detail. (10)
  - (b) What is memory in computer? Explain different types of memory. (10)

OR

- 2. (a) Give a brief introduction of the following.
  - (i) Chain printer
  - (ii) Daisy wheel printer
  - (iii) Laser printer. (10)
  - (b) What is primary and secondary memory?Explain types of RAM and ROM? (10)

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SECTION - B								
3.	(a)	Differentiate between High level and Low level languages with suitable examples. What are testing and debugging of a program?						
	(b) Write down the purpose of following external command with syntax							
		(i)	CLS	(ii)	DEL			
		(iii)	MD	(iv)	CD			
		(v)	DIR	(vi)	TYPE	(10)		
				OR				
4.	(a) Differentiate among compiler, interpreter and assembler. Give a brief introduction to algorithm and Flow-chart.					(10)		
	(b)		at is softwar ware and Appli		Explain System on software.	(10)		
SECTION - C								
5.	Differentiate between procedural programming and object oriented programming. Explain the feature of inheritance in C++.							
OR								
6.	(a)		•		erloading m C++? class and objects.	(10)		
	(b)	ave usir	rage of an arraying the feature of	y. A v	o find the sum and vith n integer values vnamic initialization	(40)		
		of v	ariables.			(10)		

	3 SECTION - D	810				
7. (a)	Discuss the following decision control and loop control statements with examples.					
	(i) if-else (ii) while					
	(iii nested if (iv) do-while					
	(v) for (vi) break	(20)				
	OR					
8. (a)	Write a program to generate the Fibonacci series using recursion.	(10)				
(b)	With the help of suitable examples explain					
	how to declare, define and call a function in C++?	(10)				
	SECTION - E					
9. Short answer type questions						
(i)	<ul><li>(i) What are the different types of monitors?</li><li>(ii) What is the use of track ball and joy stick?</li></ul>					
(ii)						
(iii)	(iii) Why do we use Flow-charts?.					
(iv	(iv What is an algorithm'?					
(v)	Explain data binding in C++.					
(vi)	(vi) What is data abstraction?					
(vii)	(vii) Define the instance of a class.					
(viii)	<ul><li>(viii) Explain argument passing by reference.</li><li>(ix) What are the differences between logical operators and relational operators?</li></ul>					
(ix)						
(x)	How to declare a integer, constant and character pointer in C++.	(20)				