Code No: 07A1EC04

I B.Tech Supplimentary Examinations, Aug/Sep 2008 COMPUTER PROGRAMMING (Common to Mechanical Engineering, Mechatronics, Production Engineering and Automobile Engineering)

Time: 3 hours

Max Marks: 80

Set No. 1

Answer any FIVE Questions All Questions carry equal marks

- 1. (a) What are the delimiters available in 'C'? (b) Explain the scope of variable in 'C'. [6+10]2. Write short notes on selection statement. Write a 'C' program to find Armstrong number using if statement. [16]3. Write a program to find sum of odd & even series by using function with argument and no return value. [16]4. Explain an array, array declaration and features of array. [16]5. Define Structure and write the general format for declaring and accessing structure members with an example. [16]6. (a) What is the primary advantage of using data file? (b) Describe the different ways in which data files can be categorized in C.[8+8]7. What do you mean by data structure? Explain about Non - Linear data structure? [16]
- 8. (a) What is a network?
 - (b) What is a spanning tree?
 - (c) Define minimal spanning tree.
 - (d) What are the various traversals in a tree? [4+4+4+4]

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Set No. 2

Answer any FIVE Questions All Questions carry equal marks $\star \star \star \star \star$

1.	(a)	What do you mean by enumerated data type explain with examp	ple?	
	(b)	Define local and global variable.	[10+6]	
2.	(a)	What are the commonly used Input / Output functions used in 'O are accessed?	C'. How they	
	(b)	What is the standard Input / Output header files in 'C'? How it	is used? $[10+6]$	
3.	3. Write a program to find sum of odd & even series by using function with argument and no return value. [16]			
4.	Exp	lain an array , array declaration and features of array.	[16]	
5.	(a)	Write a program to print name, address using structure.		
	(b)	Write a program to print name, marks using structure.	[8+8]	
6.	(a)	What are the different accessing modes?		
	(b)	What is the purpose of fopen(), fclose()?	[8+8]	
7.		te a program to evaluate the following expression $X = A + B * C$ in g stack.	fix to postfix [16]	
8.	(a)	What is a network?		
	(b)	What is a spanning tree?		
	(c)	Define minimal spanning tree.		
	(d)	What are the various traversals in a tree?	[4+4+4+4]	

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Set No. 3

Answer any FIVE Questions All Questions carry equal marks

- *****
- 1. What is the purpose of constant? Write short notes on String and enumeration constant with example. [16]
- 2. (a) What are the commonly used Input / Output functions used in 'C'. How they are accessed?
 - (b) What is the standard Input / Output header files in 'C'? How it is used?

[10+6]

- 3. What is the working of following functions :
 - (a) ceil(x)
 - (b) $\exp(x)$
 - (c) $\cos(x)$
 - (d) tolower(x). [16]
- 4. How to pass arrays as arguments to function? With example. [16]
- 5. Define Structure and write the general format for declaring and accessing structure members with an example. [16]
- 6. (a) Write the syntax for opening a file with various modes and closing a file.
 - (b) Explain about file handling functions. [8+8]
- 7. What are the advantages of external sorting? Write a program to perform merge sort with following elements [16]
 Set A {10, 5,20,25}
 Set B {17,19,21,23}
- 8. (a) What is a network?
 - (b) What is a spanning tree?
 - (c) Define minimal spanning tree.
 - (d) What are the various traversals in a tree? [4+4+4+4]

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Time: 3 hours

Max Marks: 80

Set No. 4

Answer any FIVE Questions All Questions carry equal marks

1.	Explain Integer and Floating point constant with example.	[16]
2.		
	(b) Give the features of for - loop.	[10+6]
3.	Write program for arranging number in descending order using function argument and with return value.	without [16]
4.	Explain an array , array declaration and features of array.	[16]
5.	Define Structure and write the general format for declaring and accessing s members with an example.	tructure [16]
6.	Write a program for indexed sequential file for the employee database for lowing operation.	the fol- [16]
	(a) Add Record	
	(b) Modify Record.	
7.	What is the advantage of binary search compared to linear search. Write a p to perform binary search?	program [16]
8.	(a) What is a network?	

- (b) What is a spanning tree?
- (c) Define minimal spanning tree.
- (d) What are the various traversals in a tree? [4+4+4+4]