## Dr. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY

## B. Tech. Course in (Mechanical/Civil/Petrochemical/Chemical Engineering)

## Semester Examination, 2016-17

Subject: Basic Computer Programming

Date	: 22/05/2017 Semester:	II
Time	: 10,00 am	ks: 6
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	<ul> <li>i) Solve all the Questions. Each Question carry equal marks.</li> <li>i) Necessary data is given in the respective questions. If such data is not given, it me that the knowledge of that data is a part of examination.</li> <li>ii) If some part or parameter is noticed to be missing, you may appropriately assum and should mention it clearly.</li> </ul>	eit
Q. 1		
<b>a</b> )	(i) Enlist the features of C.	[3]
	(ii) Define Algorithm and Pseudocode.	[2]
<b>b</b> )	Explain the following terms in brief: (i) Compiler (ii) Editor (iv) Syntax Error (v) Bug	[5]
Q. 2		
a)	Define Variable? What are the rules to declare variables? Give the example of variable declaration and variable definition.	[5]
<b>b</b> )	What do you understand by operators? Explain the use of the following operators with proper example:  i) Arithmetic Operators  ii) Relational Operators  iii) Logical AND	
Q. 3		- <b>-</b>
a)	Write a program and draw a flowchart to print factorial of a number entered by user using for loop.	[5]
	OR	
	Write a program to print GCD (Greatest common divisor) of two integer number using while loop.	[5]

<b>b</b> )	Write a program which display sum of N integer number using do-while loop. Draw a flowchart for this program.		
Q. 4			
<b>a</b> )	(i) What do you mean by function? Give the proper syntax to define function, to call the function.		
	(ii) Explain void function.		
<b>b</b> )	Write a program to calculate and display Area and Circumference of a circle using area() and circum() methods.		
Q. 5			
<b>a</b> )	Write a program to print transpose of matrix.	[5]	
	OR		
a)	Write a program that take 10 elements in one dimensional array. And display a maximum number from a given elements of array.		
<b>b</b> )	Explain string functions strcpy, strcat, strlen, strncat, and strrev with suitable example.		
Q. 6			
<b>a</b> )	Explain the in built functions getchar() and putchar(). How getchar() and putchar() are differ from printf() and scanf() functions?		
<b>b</b> )	Write a program to enter Student details such as Roll_No, Name, Department, age using structure.		
OR			
<b>b</b> )	Write a program to determine HSC examination details of a student using structure.		

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