

				Sub	ject	Co	de: I	KCS	<u> 201</u>
Roll No:									

BTECH (SEM II) THEORY EXAMINATION 2021-22 PROGRAMMING FOR PROBLEM SOLVING

Time: 3 Hours Total Marks: 100

Note: Attempt all Sections. If you require any missing data, then choose suitably.

SECTION A

1. Attempt all	<i>l</i> questions in brief.	2x10 = 20
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Qno	Questions	CO			
(a)	What do you mean by command line arguments?				
(b)	Explain strlen() and strcpy() function with example.				
(c)	What do you mean by linked list?	5			
(d)	What do you mean by function prototype?	3			
(e)	Describe the use of logical AND and logical OR operators in C with	2			
	example.				
(f)	Write down the difference between syntax error and logical error.	1			
(g)	What is algorithm? Discuss its characteristics.	1			
(h)	Why we use do while loop in C?	3			
(i)	Differentiate between structure and union.	4			
(j)	Explain Bitwise operator with example.	2			

SECTION B

2. Attempt any three of the following:

1	0x3	=	30
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Attent	of any unce of the following.	5 50
Qno	Questions	CO
(a)	Explain Basic data type with their size and range and format specifier.	1
(b)	Write a program to find the largest of three numbers using conditional operator.	2
(c)	Write a program to print the following pattern.	3
	1 22 333 444 Own In add 1	
(d)	Write a program to store a record of 100 student like name, marks	4
	and roll number and print using structure.	
(e)	Explain DMA along with their all function in detail.	5

SECTION C

3. Attempt any *one* part of the following: 10x1 = 10

Qno	Questions	CO
(a)	What is operating System? Explain its type.	1
(b)	What is meant by type conversion? Explain about implicit and	1
	explicit type conversion with examples.	

4. Attempt any *one* part of the following: 10x1 = 10

Qno	Questions	CO
(a)	Write a Program to print the all prime numbers between 1 to 500.	2
(b)	What do you mean by Operator precedence and operator	2
	associativity?	

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5. Attempt any *one* part of the following:

10x1	=10
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Qno		Questions	CO
(a)	Write a program to find th	e sum of N natural number using recursion.	3
(b)	What do you mean by call	by value and call by reference? Write a	3
	program to read two intege	rs X and Y and swap the contents of the	
	two variables X & Y using	pointers.	

6. Attempt any *one* part of the following:

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Qno	Questions	CO
(a)	Write a program to find maximum and minimum element of an array.	4
(b)	Write a program to find the number of vowels in a string.	4

7. Attempt any *one* part of the following:

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		x 1	_	
_ 1	V.	AΙ	_	1

(a) Explain the role of C-pre-processor. What is Macro? And advantages of using macro definitions in a program. Give an example. (b) List out various file opening modes in C. Write a program to copy the content from one file to another file.
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