		GIET MAIN CAMPUS AUTONOMOUS, GUNUPUR - 765022					
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	U	istration No:					
Total Number of Pages :3 B.TECH. DEGREE EXAMINATION-Nov-Dec.2018 End Semester Examination-I Semester BBSES1050- Programming in C (Regulations 2017)(Common to all Branches of Engineering)							
		Time : 3 HoursMaximum : 100 MarksQuestion Code:Answer ALL QuestionsPART-A (10 X 2=20 Marks)	191712				
1	a.	The operator "++" adds the value to the operand. a) 1 b) 2 c) 3 d) 4	[CO1PO1]				
	b.	The standard mathematical functions are included in theheader file. a) mats.h b)(Phys.h c) math.h d)(math1.h	[CO1PO1]				
	c.	 a) %ld %f b)) %ld f c) ld %f d) ld f 	[CO2PO1]				
	d.	An immediate exit from the loop can be achieved by a statement. a) stop b) end c) break d) over	[CO2PO1]				
	e.	statement is used to return control from called function to calling statement.(return) Option :a) control b) called c) calling d) return	[CO2PO1]				
	f.	char *p="hello friends"; It is valid or invalid (a)invalid (b) valid (c) true, (d) Non of these	[CO3PO3]				
	g.	Given: int x,y,z,q; x=10; y=5; z=3; q=x>y>z; the q value is Option: (a) 0 (b) 1 (c) 2 (d) 3	[CO3PO3]				
	h.	<pre>struct date{ char a,b,c; } x; printf("%d",sizeof(x)); the size of x isbytes. Option (a) 2 (b) 3 (c) 4 (d) Non of these</pre>	[CO4PO3]				
	i.	int x=25,*p,**q; p=&x q=&p printf("%d",**q); the output is Option (a) 25 (b) 28 (c)10 (d) Non of these	[CO4PO4]				
	j.	main() { int i=3; do{ printf("%d",i); } while(i>0); return 0; } Output is Option: (a) 3 2 1 (b) 4 2 1 (c) 2 3 1 (d) Non of these	[CO4PO4]				

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PART-B (10 X 2=20 Marks)

a. b. c. d. e. f. g. h.	 What are the rules for naming an identifier? Write an example on usage of conditional operator. What is an array? How to initialize values to a 1D array during its declaration. What is a recursive functions, write an example? What is the role of return statement in a function? Can we write a function which can return more than one value using return statement? What is bit field in structure? Write an example on nested structure. Identify valid and invalid statements below: int a+b; char long; int x,y,z,p,q,w,e,r,t,y,u,i; float QWE_TY; 	[CO1PO1] [CO1PO1] [CO2PO1] [CO2PO1] [CO2PO1] [CO3PO1] [CO3PO1] [CO3PO2]
i.	What will be the output and why? #include <stdio.h> #define A 1+2 #define B 3+4 int main() { int var = A * B; printf("%d\n", var);</stdio.h>	[CO4PO2]
j.	Find output and justify int main() { char *p="alok"; int i; for(i=0; *(p+i)!='\0'; i++) printf("%c",*(p+i)); return 0; } PART-C (4 X 15=60 Marks)	[CO4PO2]
	Write a program to display weekday as per the digit given within(1 to 7), 1 – Sunday, 2- Monday, 3-Tuesday etc. Use switchcase	[7][CO1/PO2]
coc me	Write a program to create a structure for product having members like product le, product name, price and quantity. Create a structure pointer to allocate mory for five products using dynamic memory allocation. Store the product ails and display. (or)	[8][CO1/PO3]
	Write a program to input a positive number and test whether it is Armstrong mber or not.	[5][CO1/PO2]
(ii)	Write down the difference between the followings with suitable example for each	[10][CO1/PO2]

: (i)while vs. do..while (ii)call by value vs call by address

2

3a

b.

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4a	(i)Write a program to input values into a 4X4 matrix and display the transpose of it.	[7] [CO2/PO3]
	(ii)Write a program to input 4 unequal numbers and find the greatest using else if ladder using UDF.	[8][CO2/PO3]
	(or)	
b	(i) Write a program to print the pyramid ******	[7][CO2/PO2]
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	* * * *	
	* * *	
	*	
5a	(ii) Write the syntax and explain on string handling functions: strcmp(), strrev(), strcpy(), strcat() using a suitable example	[8][CO2/PO2]
	(i) Write a program to input 10 integers into an array. Create a recursive function to find the largest element present.	[7][CO2/PO3]
b.	(ii)Write a program to create a structure for product having members like product code, product name, price and quantity. Create a structure pointer to allocate memory for five products using dynamic memory allocation. Store the product details and display.	[8][CO3/PO2]
	(or) (i) Write a program to create user defined function called swap having two integer pointers as its arguments and it has no return value. Call this function for interchanging two values using call-by-address.	[7][CO3/PO3]
	(ii)Briefly explain all the storage classes and their characteristics.	[8][CO3/PO3]
ба	(i) Write a program to create a structure BOOKS having members : Book code, book name, author, cost. Store 10 books details using structure array. Find the total cost of all books and the costly book exist.	[7][CO4/PO3]
	(ii)What is the advantage of a character pointer over a character array? Explain the terms: array of pointers, pointe to pointer.	[8][CO4/PO3]
b.		
0.	(or)	
	(i)Write briefly about implicit and explicit type conversions with suitable example.	[7][CO4/PO3]
	ii)Write a program to input 3 co-efficient values and find the real roots of a quadratic equation.	[8][CO4/PO2]

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