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BRAINWARE UNIVERSITY

Term End Examination 2022
Programme – BCA-2019/BCA-2020/BCA-2021
Course Name – Problem Solving using C
Course Code - BCAC101
(Semester I)

	Marks: 60	Time : 2:30 Hour		
Lit	_	dates are required to give their answers in their own		
	words as far a	s practicable.]		
	•			
	Grou	•		
_	(Multiple Choice			
1.	Choose the correct alternative from the following	1: .		
(i) Decide the output of the program? #include<stdio.h> int main() { int i=3; i = i++; printf("%d\n", i); return 0; }</stdio.h>				
	a) 3	b) 4		
	c) 5	d) 6		
(ii)	Decide the output of the program? #include <sto< td=""><td>lio.h> int main() { int a=100, b=200, c; c =</td><td></td></sto<>	lio.h> int main() { int a=100, b=200, c; c =		
	(a == 100 b > 200); printf("c=%d\n", c); return	0;}		
	a) c=100	b) c=200		
	c) c=1	d) c=300		
(iii)	Discover a relation between the pointer and the	data		
	a) Pointer stores the address of any variable b) Pointer stores the data of any variable			
	c) pointer stores the address returned by any	۸)		
	function	None of these		
(iv)	iv) Tell the names who have developed the C programming language			
	a) Bjarne Stroustrup(N)	b) James Gosling(N)		
	c) Dennis Ritchie(Y)	d) Ray Boyce(N)		
(v)	State the name having a few letters, numbers ar	nd special character (underscore) is called		
	a) keywords(N)	b) reserved keywords(N)		
	c) reserved keywords(N)	d) identifiers(Y)		
(vi)	Select the right way to declare a character point			
•	a) char *p,			
	c) *p char;	b) character *p;		
(vii)		d) None of these		
,,	Select out the error, if any in the program. #include <stdio.h> int main() { int i = 1; switch(i) { printf("This is c program."); case 1: printf("Case1"); break; case 2: printf("Case2"); break;</stdio.h>			
	} return 0; }	, break, case 2. printil Casez 1; break;		
	a) Error: No default specified	h) From Invalid a data and a second		
		b) Error: Invalid printf statement after switch		
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(viii)	c) No Error and prints "Case1" Select out the error, if any in the program. #inclu >=5 ? b=100: b=200; printf(\"%d\\n\", b); return	statement d) None of these de <stdio.h> int main() { int a = 10, b; a</stdio.h>	7
(ix)	a) 100 c) Error: L value required for b Select the correct way in C for 2DArray declaration	b) 200 d) Garbage value	m,57.49
(x)	a) [][]c) ()[]Name the person who developed the C programs	b) {}[] d) None of these ning language?	
	a) Bjarne Stroustrup c) Dennis Ritchie Select the correct statement	b) James Gosling d) Ray Boyce	
	a) The pointer has the direction property c) Pointer maintains both the property Select the correct option	b) The pointer has the indirection property d) None of these	
	a) Structure in C language contains functionc) structure contains only numberWhich of the following function is more appropri	b) Structure in C language contains no fund d) None of these ate for explain in a multi-word string?	tion
	a) printf();c) gets();How will you apply process to free the allocated	b) scanf(); d) puts();	
	a) remove(var-name);c) delete(var-name);Iteration is the process where a set of instruction executed	b) free(var-name);d) dalloc(var-name);	
	a) Once c) Thrice	b) repeatedly d) None	
	Grou (Short Answer Ty		x 5=15
3. Ex 4. Ex 5. Di 6. Di	hat is pointer of pointer plain the Ivalue and rvalue plain the dangling pointer shtinguish between the actual and formal parame shtinguish between between getch() and getche() OF	*	(3) (3) (3) (3) (3)
Ex	plain toupper() with an example		(3)
	Grou (Long Answer Ty		x 6=30
8. S 9. V 10. C 11. C	ell Which structure is used to link the program an tate File operations in C Language Vrite a program on call by reference compare between reference and Pointer? compare between new() and malloc()? ull pointer different from a void pointer criticize in the compare different from a void		(5) (5) (5) (5) (5) (5)
D	OF ecide the output of the following #include #inclu	t de long factorial (int n) { if (n==0) return 1;	(5)

else return (n * factorial(n-1)); //recursion } void main() { int number; long fact; printf("Enter a number: "); scanf("%d", &number); fact = factorial(number); printf("The factorial of %d is %ld!\n", number, fact); getch(); }

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