(7 page	es) R	leg. No. :	2. 'C	is a	constan	nt.	
Code No. : 20481 E		Sub. Code : CMCS 11/	(;	) decimal	(b)	integer	
		CMSE 11	((	) string	(d)	character	
B.Sc. (CBCS) DEGREE EXAMINATION, NOVEMBER 2023.		3. T	he ?: Operator ha		operands.		
		`	1) 4	(b)			
	First S	Semester	(	2) 3	(d)		
Co	omputer Science/Soft	ware Engineering – Core	4s	is	s an ent	try-controlled loopi	ng
PROGRAMMING IN C			(	ı) for	(b)	if	
(For those who joined in July 2021-2022)				e) while	(d)	do while	
Time :	: Three hours	Maximum : 75 marks		What is the output		ing program?	
	SECTION A — $(10 \times 1 = 10 \text{ marks})$			#include <stdio.h> void main()</stdio.h>			
	Answer A	LL questions.		{ int a[2][3]	] = {1, 2, 3,	4.53:	
Choose the correct answer:				int $i = 0$ , j	j = 0;		
1 is the name given to variables, functions, and labels in C program.				for $(i = 0;$ for $(j = 0;$	I < 2; i++) j < 3; j++)		
	(a) Sign	in C program.		printf("%6	d", a[i][jj);		
	(b) Symbolic const	ant		a) 123450	(b)	1 2 3 4 5 junk	
	(c) Identifier			e) 123455	(d)		
	(d) Indent						
					Page 2	Code No. : 20481	1 E
		ion abou *otosbu(sb. s)?	0 W/1				ı E
6. WE	hat is the use of funct return pointer to f	ion char *strchr(ch, c)? first occurrence of ch in c or	#in	at is the output o clude <stdio.h></stdio.h>	f following		1 E
i. WF (a)	hat is the use of funct return pointer to f NULL if not prese	first occurrence of ch in c or ent	#in	clude <stdio.h> t i;</stdio.h>	f following		1 E
6. WE	hat is the use of funct return pointer to f NULL if not prese	first occurrence of ch in c or ent first occurrence of c in ch or	#in	clude <stdio.h></stdio.h>	f following		1 E
i. WF (a)	hat is the use of funct return pointer to f NULL if not prese return pointer to f NULL if not prese return pointer to	first occurrence of ch in c or ent first occurrence of c in ch or ent first occurrence of ch in C	#in ir ir	clude <stdio.h> t i;</stdio.h>	f following		1 E
6. WF (a) (b)	hat is the use of funct return pointer to f NULL if not presc return pointer to NULL if not presc return pointer to or ignores if not p	first occurrence of ch in c or ent first occurrence of c in ch or ent first occurrence of ch in C resent	#in ir ir	clude <stdio.h> t i; t main()  extern int i; if (i == 0)</stdio.h>	f following	program?	1 E
6. WF (a) (b) (c)	hat is the use of funct return pointer to f NULL if not presc return pointer to NULL if not presc return pointer to or ignores if not p	first occurrence of ch in c or ent first occurrence of c in ch or ent first occurrence of ch in C resent first occurrence of c in ch or	#in ir ir	clude <stdio.h> t i; t main()  extern int i; if (i == 0)</stdio.h>	f following	program?	1 E
6. WF (a) (b) (c)	hat is the use of funct return pointer to f NULL if not prese return pointer to NULL if not prese return pointer to or ignores if not p return pointer to ignores if not pres	first occurrence of ch in c or ent first occurrence of c in ch or ent first occurrence of ch in C resent first occurrence of c in ch or	#in in in {	clude <stdio.h> t i; t main()  extern int i; if (i == 0)</stdio.h>	f following tf("scope ru	program?	1 E
(a) (b) (c) (d)	hat is the use of funct return pointer to f NULL if not prese return pointer to NULL if not prese return pointer to or ignores if not p return pointer to ignores if not prese	first occurrence of ch in c or ent first occurrence of c in ch or ent first occurrence of ch in C resent first occurrence of c in ch or ent	#in in in {	clude <stdio.h> .t i; .t main()  extern int i; if (i == 0)  print</stdio.h>	f following tf("scope ru (b)	: program? ules\n");	1 E
(a) (b) (c) (d)	hat is the use of funct return pointer to f NULL if not prese return pointer to NULL if not prese return pointer to or ignores if not p return pointer to ignores if not prese is an in ) &	first occurrence of ch in c or ent first occurrence of c in ch or ent first occurrence of ch in C resent first occurrence of c in ch or sent direction operator.	#in in in {  (a)	clude <stdio.h> .t i; .t main()  extern int i; if (i == 0) print  Scope rules Runtime error</stdio.h>	f following tf("scope ru (b) (d)	program?  ules\n");  Compile time error Infinite looping	
(a) (b) (c) (d) (7	hat is the use of funct return pointer to f NULL if not prese return pointer to NULL if not prese return pointer to or ignores if not p return pointer to ignores if not pres is an in ) & * that will be the size of	first occurrence of ch in c or ent first occurrence of c in ch or ent first occurrence of ch in C resent first occurrence of c in ch or sent direction operator.  (b) %	#in in in {  (a) (c)	clude <stdio.h> .t i; .t main()  extern int i; if (i == 0) print  Scope rules Runtime error</stdio.h>	f following tf("scope ru (b) (d)	program? ules\n"); Compile time error	
(a) (b) (c) (d) (7	hat is the use of funct return pointer to f NULL if not prese return pointer to NULL if not prese return pointer to or ignores if not p return pointer to ignores if not prese is an in ) & *	first occurrence of ch in c or ent first occurrence of c in ch or ent first occurrence of ch in C resent first occurrence of c in ch or ent direction operator.  (b) %  (d) ><	#in in in {  (a) (c)	clude <stdio.h> .t i; .t main()  extern int i; if (i == 0) print  Scope rules Runtime error nich one of the fening a file?</stdio.h>	f following  tf("scope ru  (b)  (d)  following i	program?  ules\n");  Compile time error Infinite looping	r
(a) (b) (c) (d) (a) (c) (a) (b)	hat is the use of funct return pointer to f NULL if not prese return pointer to return pointer to or ignores if not p return pointer to ignores if not prese is an in ) & hat will be the size of nclude <stdio.h> ruct temp int a[10]:</stdio.h>	first occurrence of ch in c or ent first occurrence of c in ch or ent first occurrence of ch in C resent first occurrence of c in ch or ent direction operator.  (b) %  (d) ><	#in in in {  (a) (b) (c) (c) (d)	clude <stdio.h> .t i; .t main()  extern int i; if (i == 0) print  Scope rules Runtime error nich one of the fening a file?  FILE *fopen( *mode)</stdio.h>	f following  tf("scope ru  (b)  (d)  following i	ules\n"); Compile time error Infinite looping s correct syntax for lename, const char	r
(a) (b) (c) (d) (a) (c) (a) (b)	hat is the use of funct return pointer to f NULL if not prese return pointer to NULL if not prese return pointer to or ignores if not p return pointer to ignores if not pres is an in ) &  hat will be the size of nclude <stdio.h> ruct temp</stdio.h>	first occurrence of ch in c or ent first occurrence of c in ch or ent first occurrence of ch in C resent first occurrence of c in ch or ent direction operator.  (b) %  (d) ><	#in in in {  (a) (b)	clude <stdio.h> .t i; .t main()  extern int i; if (i == 0) print  Scope rules Runtime error nich one of the fening a file?  FILE *fopen( *mode)  FILE *fopen(C</stdio.h>	f following  tf("scope ru  (b)  (d)  following i  (const *filer	ules\n"); Compile time error Infinite looping s correct syntax for lename, const char	r
6. WF (a) (b) (c) (d) 7. (a) (e) 8. WI #in str {	hat is the use of funct return pointer to f NULL if not prese return pointer to NULL if not prese return pointer to or ignores if not p return pointer to ignores if not pres is an in ) &  hat will be the size of nclude <stdio.h> ruct temp int a[10]: char p;</stdio.h>	first occurrence of ch in c or ent first occurrence of c in ch or ent first occurrence of ch in C resent first occurrence of c in ch or ent direction operator.  (b) %  (d) ><	#in in in {  (a) (b) (c) (c) (d)	clude <stdio.h> .t i; .t main()  extern int i; if (i == 0) print  Scope rules Runtime error nich one of the fening a file?  FILE *fopen( *mode)  FILE *fopen(C</stdio.h>	f following  tf("scope ru  (b)  (d)  following i  (const *filer	ules\n"); Compile time error Infinite looping s correct syntax for lename, const char	r

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SECTION B —  $(5 \times 5 = 25 \text{ marks})$ 

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

 (a) Define tokens in C. List and explain with examples.

Or

- (b) Write about operator precedence in C.
- 12. (a) Illustrate I/O Statements in C with Examples

Or

- (b) Write a C program to print names of months using switch-case statement.
- 13. (a) Write a C program to find sum of positive elements in a given set of numbers.

Or

- (b) Explain the usage of two-dimensional arrays.
- 14. (a) Explain declaration and usage of a function to calculate factorial.

Or

(b) Compare structures and unions.

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19. (a) Write a program to sort numbers using user defined function.

Or

- (b) Analyze declaration of arrays within structures and their usage.
- 20. (a) Write a program to create a file containing five student records.

 $O_{\Gamma}$ 

(b) Estimate the significance of pointers in C.

15. (a) Justify printing of a two-dimensional array using pointers.

Or

(b) Summarize opening and closing a data file in C.

SECTION C —  $(5 \times 8 = 40 \text{ marks})$ 

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

 (a) Write a C program using any four data types in C.

Or

- (b) Write a C program using any ten operators in C.
- 17. (a) Explain for statement in C with examples Or
  - (b) Develop a C program to find sum of n terms of Fibonacci series.
- 18. (a) Construct a C program to find sum and difference of two matrices

O:

(b) Illustrate any five string functions in C.

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