Office of the Controller of Examinations

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1	T	Sanothimi, Bhaktapur	halten/Dal	abalch	
		lar/Back/Scholarship Exam – 2081/2082 C Diploma in Computer Engineering/ Information Technology		Full Marks: 80 Pass Marks: 32 Time: 3 hrs.	
Ye	ar/l	Part: 11/1 (2022) © Arjun	Pass Ma		
Su	bjec		Time		
Cana figur	lidate es in	es are required to give their answers in their own words of the margin indicate full marks pt any FIVE questions. WWW.ALJU	ıs far as practi	icable. The	
Att	emp	pt any <u>FIVE</u> questions.	41100100		
1.		Define flowchart and algorithm with suitable	example.	[4+4]	
	b.	Explain formatted and unformatted input/output with syntax. Write the advantages of C progra	mming.	[2+2+2]	
2.	a.	Explain the unary and binary operator with How can you explain the data type in C?	examples.	[5+3]	
	b.	Explain all three types of looping structure syntax.	with proper	[8]	
3.	a.	Write a program in C to input any integer display the corresponding days of a week ustatement.	sing switch	[8]	
	b.	Describe the purpose of array in C. WAP to order matrix and find the sum of all evenumbers.	input mxn n and odd	[2+6]	
4.	a.	Define function and explain the purpose of fur WAP to generate Fibonacci series 0, 1, 1, 2, 3, 34 using function.	nction in C. 5, 8, 13, 21,	[2+6]	
	b.		WAP in C s, roll no.,	[2+8]	
5.	a.	Why do we use a pointer in C? WAP in C number using pointer.		[2+8]	

b. WAP in C to read the roll, name, address and telephone number of student and write in the data file until user say "Yes". Also, read all the content of the file and display them on the screen.

Write short notes on: (any FOUR)

[4×4]

- a. Recursive function
- b. String handling function
- Break and continue statement
- d. Escape sequence
- e. Dynamic memory allocation





Council for Technical Education and Vocational Training Office of the Controller of Examinations

	160	Office of the Controller of Examinations	
Re	gul	Sanothimi, Bhaktapur ar/Back/Scholarship Exam-2080/2081, Chaitra/Baisha	1.1.
Access to the second	gra	Dinlama in C	
Yea	ar/P	art: II/I (2022) © Arjun Pass Mark	· 32
Sul	bject	C Programming Time:	
Cand	idate.	granania de la la de la dela dela dela dela del	
figure	es in t	he margin indicate full marks	
Att	етр	t any FIVE questions. www.arjun00.com	n.np
1.	a.	What are the different types of errors that can occur in the	[5+3]
		of programming language? Explain the types of programming language.	970 262 2 672
	b.	Define keyword. Describe the compiling process C code into an executable program. Write the rules to define identifier.	[2+3+3]
2.	a.	Explain the ternary and logical operator with examples. How can formatted input/output functions be used in C?	[5+3]
	b.	Define loop and switch statement. Write a C program to find the sum of 1+2+3++100.	[4+4]
3.	a.	Write a code in C to print the following pattern. 1	[4+4]
	b.	Define array. Write a program to input m×n order matrix and find the sum of all even and odd numbers.	[1+7]
4.	a.	Explain call by value and call by reference with suitable examples.	[8]
	b.	What is structure? Write a C program to take input from user having Student_ID, Sutdent_Name, Student_Address and display those Student_Name whose address is	[2+6]

"Kathmandu" using structure.

Cont.

5. a. What is pointer? Write a C program to swap two integers [2+3+3] using pointer. Explain any 3 string handling function.

b. What are the different modes of opening files? Explain. Write a program in C to read the content of file name "CTEVT.txt".

[4+4]

6. Write short notes on: (any TWO)

[2×4]

- a. Break and continue
- b. Recursive function
- c. Dynamic memory allocation





Council for Technical Education and Vocational Training

Office of the Controller of Examinations

Sanothimi, Bhaktapur

Regular/Scholarship Exam-2080, Bhadra

Program:		Diploma in I'l	Full Marks: 80		
Year/Part:		Diploma in IT / Computer Engg. II/I (2022) © Arjun			arks: 32
Sub	ject:	C Programm	C Programming		3 hrs.
Can	didates a	re required to gi	ve their answers in their own	words a	s far as
prac	cticable. Ti	he figures in the mo	argin ind www.arj	un00	.com.nr
45	Attemp	ot Any Eight Qu	uestions.	190	
1.			d Flowchart with an exa compiler and Interpreter.	mple.	[5+5]
2.			Explain about the formatted out functions with examples.	d and	[4+6]
3.	Define		tion about the types of ope	rators	[2+8]
4.	What is	s looping? Diffe while loop v	erentiate between while loo with example.	p and	[2+8]
5.	What is determi	s switch staten ne greatest num	nent? Write a program in ber among three numbers.	C to	[2+8]
6.	Define a number among t	in an array ar	a program in C to input 10 in a prog	nteger umber	[2+8]
7.	Define function syntax.	function. What? How can we	t are the advantage of declare function? Write do	using wn its	[2+2+6]
8.	What is of 20 e	mployee and d	e a program in C to store re lisplay the record in appro of the employee are id, nam	priate	[2+8]
9.	program	re the different in C to write T.txt" enter by the	modes of opening file? We the character into a texthe user.	rite a ct file	[3+7]
10.	Write sh	nort notes on: (A	Any Two)		[2x5=10]
	a) Pointe	er	b) Dynamic memory alloc		
	c) Recur	rsive function	www.arjun00.co	m.np	
			Good Luck!		

Council for Technical Education and Vocational Training

Office of the Controller of Examinations

Sanothimi, Bhaktapur

Regular/Back	Exam-2080,	Baishakh /	Jestha
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Program:		am:	Diptoma in Computer Engineering	Full Marks: 80		
Year/Part: Subject:		Part:	1/I (2018) Pass M	larks: 32		
			Computer Programming in C Time:			
Ca	actic	able. Ti	t Any Five questions.	s far as O.com.np		
1.	a)	Wha	t Any Five questions. It is Programming Language? Differentiate between piler and Interpreter with an example.	n [2+6]		
	b)	Expl	ain the keywords used in C. Write a program in C to three number and print the Larger number.	0 [3+5]		
2.	a)	How the r	do we declare and initialize variable? Write down ules for naming variables. Write a program to inpunumbers and find the quotient and remainder.			
	b)	Wha	t is an escape sequence? Explain different types of ators in C with examples.	of [2+6]		
3.	a)		erentiate between while loop and do while loop wit	h [8]		
	b)	What	t is for loop? Write a program to find the sum of a ral number from 1 to 20.	11 [2+6]		
4.	a)	What	t is function? Write down the a advantages of ion? Write a program to input a number and check even or odd using function.			
	b)	What	t do you mean by recursive function? WAP in C			
5.	a)	What	t is an array? Write a program to sort n numbers ray in ascending order.			
	b)		t is string? Explain string handling functions wi	th [2+6]		
6.	a)	Expla struct	ain structure with its syntax. Write a program using ture to display name, address and salary of two yees.			
	b)	Write i) Bre ii) Dy	eshort notes on : (Any Two) eak and continue statements vnamic memory allocation lodes of opening files	[2x4=8]		
			Commence of the Commence of th			

Council for Technical Education and Vocational Training

Office of the Controller of Examinations

Sanothimi, Bhaktapur

$/\!\!/ \Delta \setminus \!\!\! $	Regular/Back Exam-2078, Bhadra
Program:	Dinloma in Computer Engineering

Full Marks: 80 Program: Diploma in Computer Engineering

Pass Marks: 32 I/I (2018 New Course) © Arjun Year/Part:

Time: 3 hrs Computer Programming in C Subject:

Candidates are required to give their answers in their own words as far as practicable. The figures in the www.arjun00.com.np Attempt Any Five questions

	Att	tempt !	Any	Five question	15, -1		774,4555	10 . 61
1.	a)	What	is	programming	language?	Explain	assembler,	[2+6]
		compi	ler	and interpreter	in brief.		86 (C.450.5004)	

[8] b) Define the terms Variable, Constant, keyword and preprocessor directive.

2. a) What is data type? Explain any four basic data types [2+6]along with its memory size and range.

b) What do you mean by operator? Explain various types of [2+6]operators used in C on the basic of operation.

a) Write a program to find roots of quadratic equation [8] $(ax^2 + bx + c \neq 0 \quad r1 \, r2 = (-b \pm \sqrt{b^2 - 4ac})/2a$

b) Differentiate between while and do-while loop. Write a [3+5]program to find sum of digits of given number.

4. a) What is array? Explain any four string handling functions [2+6]in brief.

b) Write a program in C to arrange any ten numbers in [8] ascending order.

Explain call by value and call by reference with suitable [8] 5. a) examples.

Define the terms function and recursion. Write a program [2+6]b) in C to find the factorial of an entered number Using recursion

a) Differentiate between structure and Union with example. [8]

b) Write short notes on : (Any Two) [2x4=8]

i) File opening modes www.arjun00.com.np

ii) Formatted Input / Output function

Pointer iii)

Council for Technical Education and Vocational Training Office of the Controller of Examinations

Sanothimi, Bhaktapur

Regular/Back Exam-2076, Falgun/Chaitra

Diploma in Computer Engineering / Program:

Full Marks: 80

Information Technology

Pass Marks: 32

Subject:

Year/Part:

I/I (New+ Old Course) © Arjun Computer Programming in C &

Time: 3 hrs*

C- Programming.

Candidates are required to give www.arjun00.com.np

Attempt Any Eight Questions

- Define algorithm and flowchart with example. Differentiate [5+5]1. between compiler and Interpreter.
- What do you mean by data type in C? Mention about the [3+7]2. types of operators used in C with suitable examples.
- Write a syntax of switch statement. Write a program in C to [2+8]3. display respective day depending upon the number entered i-e input 1 for Sunday 7 for Saturday using control statement.
- Differentiate between while and do while loop with reference [3+7]4. to their syntax, WAP in C to read number from keyboard and check if it is palindrome or not.
- What do you mean by break & continue statement? WAP in 5. [3+7]C to input a number & calculate the factorial of that number using recursive function.
- Define constant and keyword. Explain about nested loop 6. [4+6]statement with suitable example.
- 7. Define a array. WAP in C to calculate the sum of five [2+8]different numbers with using array.
- Compare structure & union with example. WAP in C using 8. [3+7]structure to display the name, address, roll no., marks & gender.

www.arjun00.com.np

Write short notes on: (Any Two) 9.

[2*5=10]

- a) Pointer
- b) String handling function
- c) Recursive function

Council for Technical Education and Vocational Training Office of the Controller of Examinations Sanothimi, Bhaktapur Regular/Back Exam-2075, Falgun/Chaitra Full Marks: 80 Diploma in Information Technology Program: Pass Marks:32 Computer Engineering Arjun Year/Part: I/I (2008+2010+2018) Time: 3 hrs Subject: Computer Programming in C words as far as Candidates are required to give www.arjun00.com.np practicable. The figures in the mai Attempt (Any Five) questions. a) What is programming? Explain different types of language [2+6] translators. b) Define algorithm and flowchart. Write an algorithm and draw [2+6] a flowchart to find the greater number among any two numbers. Define keywords and variables with examples. Write rules for [4+4] naming variables. b) Explain different types of operators in C with examples. What [6+2] is an escape sequence? a) Explain operator precedence and associativy. Write a [4+4] program in C to find the simple interest. b) What is control structure? Explain all 3 types of loop structure [2+6] with proper syntax. a) What is control structure? Write a program in C to find if given [2+6] number is prime number or not using a function. b) Define Array. What is a string? Explain in brief any 4 string [2+2+6] handling functions with examples. a) Differentiate between structure and union with example. [8] b) Write a program in C to ask any ten numbers and arrange them 181 in ascending order. a) What are the different modes of opening file? Explain. Write a [4+4] program in C to read the content of file named "info.txt". b) Write short notes on (Any Two) [4+4] www.arjun00.com.np i. Pointers ii. break and continue statements

1.

2.

3.

4.

5.

6.

Good Luck

iii. Dynamic memory allocation

Council for Technical Education and Vocational Training Office of the Controller of Examinations

Sanothimi, Bhaktapur

Program Year/Par Subject:	t: I/I (New+ IT Old) © Arjun Pass Mar	
practicabl	es are required to give their answers in their own words a le. The figures in the n www.arjun00.com opt Any Five questions.	s far a
1. (a)	Draw block diagram of digital computer. Explain.	[5]
(b)	Explain the types of programming language.	[5]
(c)	Define algorithm and flowchart with example.	[6]
2. (a)	What is data type? Describe different types of operator used in c-programming.	[6]
(b)	WAP that will convert temperature in centigrade into Fahrenheit.	[6]
(c)	What are formatted and unformatted input and output function? Why are they called formatted and unformatted? Explain.	[4]
3. (a)	Explain types of loop.	[4]
	What will be the output of the following program? void main ()	[7]
	int i, j, n =4	
	for (i=1, i <=n; i++) {	
	for (j=1; j <i; j++)<="" td=""><td></td></i;>	
	Printf ("\t % d", i);	
	Print f ("\n");	
	, 1	
	www.arjun00.com.np	10
(c) I	Explain function with example.	[5]

4. (a) WAP in C to read any three integer number and Find

greatest number.

[5]

- (b) WAP to generate the Fibonacci series 0,1,1,2,3, 5, 8, 13, [5] 21, 34 using function.
- (c) What is an array? WAP in C to read any five students [6] name and display on the screen.
- 5. (a) What is structure? WAP to read employee name, department, Salary of 2 employees and display on the screen using structure. [8]
 - (b) What are different modes of opening file? Explain. WAP [8] to create a file name "Student txt" and write name, roll no. and marks of a student to this file.
- Write short notes on: Any Four

(4x4=1E

- (a) Switch statement
- (b) Union
- (c) Pointer
- (d) Types of array
- (e) dynamic memory allocation
- (f) Recursion



