Subject Name: Programming for Problem Solving Time: 10:30 AM TO 01:00 PMTotal Marks: 70Instructions:1Attempt all questions.2Make suitable assumptions wherever necessary.3Figures to the right indicate full marks.4Simple and non-programmable scientific calculators are allowed.Q.1Mark(a)Answer the following questions1Define: Compiler2Justify, 2 and '2' both are not same in C language.3What is the following questions1Ternary operator can be nested. (True/False)2What is the difference between char *p and char pt?4What do you mean by purcersion?5What is the following questions1Define Algorithm.2What do you mean by program, and program control?4What do you mean by program, and program control?5What is the role of gize() and pactw() file functions?6Programming needs logid building. Justify7Define Interpreter.Q.2(a)(a)Write the outputs of the following expression:(b)Write a program to print Fibonacci series.e.g.0, 1, 1, 2, 3, 5, 8, 13.(c)Explain the working of various bit-wise operators with the example.(f)Ca(g)(a)(g)List out all various string functions and describe them with syntax and example.(g)(a)(g)List out all various string functions and describe them with syntax and example. <tr< th=""><th>Subi</th><th>ect (</th><th>GUJARAT TECHNOLOGICAL UNIVERSITY BE- SEMESTER-I & II(NEW)EXAMINATION – SUMMER 2022 Code:3110003 Date:06-08-202</th><th>2</th></tr<>	Subi	ect (GUJARAT TECHNOLOGICAL UNIVERSITY BE- SEMESTER-I & II(NEW)EXAMINATION – SUMMER 2022 Code:3110003 Date:06-08-202	2			
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Q.3 (a) What is meant by array of pointers? Explain it with example. 03	0.3	(a)		03			

 (c) Draw block diagram of computer system and explain the functions of each component in detail. (a) Explain type casting with example. (b) Compare and contrast goto statement and switch statement with example. (c) Write a recursive program to find factorial of a given number. (d) OR (e) Explain while loop and do-while loop with example. (f) Explain one dimensional array, two dimensional array and multi-dimensional array with their syntax and example. (g) Explain one dimensional array, two dimensional array and multi-dimensional array with their syntax and example. (g) Explain structure within structure with example. (g) Explain structure within structure with example. (h) Define Union in 'C' with example. (c) Explain the following File Handling functions: 1. fseek() 2. ftell() 3. fread() (f) Explain the following File Handling functions: 1. fseek() 2. ftell() 3. fread() (h) File (f) for the following File Handling functions: 1. fseek() 2. ftell() 3. fread() (h) Explain the following File Handling functions: 1. fseek() 2. ftell() 3. fread() (f) Explain the following File Handling functions: 1. fseek() 2. ftell() 3. fread() (f) Explain the following File Handling functions: 1. fseek() 2. ftell() 3. fread() 		(b)	Write a program to print the triangle shown below. A A B A B C A B C D	04
 (b) Compare and contrast goto statement and switch statement with example. (c) Write a recursive program to find factorial of a given number. (d) OR (e) Differentiate function and macro. (f) Explain while loop and do-while loop with example. (g) Explain one dimensional array, two dimensional array and multi-dimensional array with their syntax and example. (c) Explain one dimensional array, two dimensional array and multi-dimensional array with their syntax and example. (g) GR (g) GR (g) GR (g) Explain structure within structure with example. (h) Explain error handling in file system with example. (h) Define Union in 'C' with example. (h) Define dynamic memory allocation, Explain malloc() and calloc(). (h) Define dynamic memory allocation, Explain malloc() and calloc(). (h) File Handling functions: 1. fseek() 2. ftell() 3. fread() (h) Travite() 5. fscanf() 6. fprintf() 7.rewind() 		(c)		07
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