What are pointers? How do you declare and initialize pointer variable? Write a simple program to read elements into an array using a pointer variable and print What are structures? Explain using code snippet, how to store and retrieve

Explain the following C functions by giving the syntax and example.

b. fscanf d. fopen

Differentiate between structures and unions.

Write a function named swap to swap two numbers using pointers. Write a C swap them. Print the variable values before and after swapping. program that reads two numbers from the user and uses the swap function to

Consider a record containing elements id, name and age. Write a C program to read a record from the user and write it to a file. Then read it from the file and

BT* Bloom's Taxonomy, L* Level

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Define a function. What are the advantages of using them in the program? Briefly explain different ways to initialize 2-dimensional array while declaring it with example. Explain each of the following with example return statement with values and their types ii) Function declaration. Function call Function call iv) Category of functions Define global and local variable. With examples explain how and where they are declared. Write a function to find and return largest of three integer values with suitable write a function with syntax.	Explain the various formatted input statements used in C. Describe the syntax of switch statement with an example. Write a program to find x ⁿ using while loop. Explain conditional operator with an example. Write a c program to check whether a character is vowel or consonant. Describe how break statement is used in Loops.	Explain in brief the basic data types in C along with its range. Evaluate the following expressions: 1) 2* ((1/3) +4 *(j - 2)) given i=8, j=5. 11) a && b c && (! b) given a=2, b=4, c=3. 11) a += b *= c -= 5 given a=3, b=5, c=8. Distinguish between procedural and object oriented programming language.	Unit – II Explain Implicit and explicit type conversions in C. Give examples. Define variables in C. Write the syntax for variable declaration and list four rules for declaring the variables. Design a flowchart and algorithm to find the area and circumference of a circle.	Explain how computer processes data? Describe the concept of keyboard interaction with CPU. Outline why a solid state storage devices are unique among storage devices. Describe the working of a cathode ray tube monitor with a neat diagram. Cutline information processing cycle. Explain how a computer uses a speaker to generate sound signal.	NMAM INSTITUTE OF TECHNOLOGY, NITTE (An Autonomous Institution affiliated to VTU, Belagavi) First Semester B.E. (Credit System) Degree Examinations Make up Examinations – January 2017 16CS111 – COMPUTER CONCEPTS AND 'C' PROGRAMMING Max. Marks: 100 Note: Answer Five full questions choosing One full question from each Unit.
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	's Vital St Page 1	g. a) Explain the following file handling functions with example: i) fprintf() and fscant() ii) getw() and putw() b) Define pointer. Explain declaration and initialization of pointer variables with suitable example. Explain the following terms with suitable example. c) Explain the following terms with suitable example. ii) Nested structures iii) Array of structures	16CS111 16CS111 16CS111 1	SEE-April - May 2017
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NMAM INSTITUTE OF TECHNOLOGY, NITTE (An Autonomous Institution affiliated to VTU, Belagavi)

Second Semester B.E. (Credit System) Degree Examinations

April - May 2017

CEPTS AND 'C' PROGRAMMING

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Unit – IV 10 Illustrate the different category of functions with example. Explain the initialization and declaration of one dimensional array with example. Explain the initialization and declaration of a given string. Write a C program to find the reverse of a given string.	Illustrate different forms of if statement with example. What is formatted output? Explain output of integer and real numbers using an example for each. Write a C program to find the factorial of a given number using while loop.	Explain switch statement in C. Write a C program to implement simple calculator to perform addition, subtraction, multiplication and division using switch to perform addition, subtraction, multiplication and division using switch to statement. Write short notes on the following with suitable example. Write short notes on the following with suitable example. By break and continue ii) getchar() and putchar() by break and continue iii) getchar() and putchar() 4	What are 'C tokens'? Explain various types of C tokens with example. 4 List out the rules for writing an identifier in C. What is a short-hand operator? List out the advantages of using short-hand operator. Evaluate the following expression where a=10, b=2, c=4, d=7, e=3, f=0 Evaluate the following expression where a=10, b=2, c=4, d=7, e=3, f=0 Evaluate the following expression where a=10, b=2, c=4, d=7, e=3, f=0 Evaluate the following expression where a=10, b=2, c=4, d=7, e=3, f=0 Evaluate the following expression where a=10, b=2, c=4, d=7, e=3, f=0 Evaluate the following expression where a=10, b=2, c=4, d=7, e=3, f=0 Evaluate the following expression where a=10, b=2, c=4, d=7, e=3, f=0 Evaluate the following expression where a=10, b=2, c=4, d=7, e=3, f=0 Evaluate the following expression where a=10, b=2, c=4, d=7, e=3, f=0 Evaluate the following expression where a=10, b=2, c=4, d=7, e=3, f=0 Evaluate the following expression where a=10, b=2, c=4, d=7, e=3, f=0 Evaluate the following expression where a=10, b=2, c=4, d=7, e=3, f=0 Evaluate the following expression where a=10, b=2, c=4, d=7, e=3, f=0 Evaluate the following expression where a=10, b=2, c=4, d=7, e=3, f=0 Evaluate the following expression where a=10, b=2, c=4, d=7, e=3, f=0 Evaluate the following expression where a=10, b=2, c=4, d=7, e=3, f=0 Evaluate the following expression where a=10, b=2, c=4, d=7, e=3, f=0 Evaluate the following expression where a=10, b=2, c=4, d=7, e=3, f=0 Evaluate the following expression where a=10, b=2, c=4, d=7, e=3, f=0 Evaluate the following expression where a=10, b=2, c=4, d=7, e=3, f=0 Evaluate the following expression where a=10, b=2, c=4, d=7, e=3, f=0 Evaluate the following expression where a=10, b=2, c=4, d=7, e=3, f=0 Evaluate the following expression where a=10, b=2, c=4, d=7, e=3, f=0 Evaluate the following expression where a=10, b=2, c=4, d=7, e=3, f=0 Evaluate the following expression where a=10, b=2, c=4, d=7, e=3, f=0 Evaluate the following expression where a=10, b=2, c=4, d=7, e	flowchart to 1	Describe Ink Jet printers and Dot Matrix printers. Summarize the information processing cycle. What is an operating system? Explain its functions.	Unit – I Billustrate the standard keyboard layout with a neat diagram. Write short notes on the following optical storage devices. CD-ROM DVD-ROM Output DVD-ROM 6	uration: 3 Hours 16CS111 – COMPUTER CONCEPTS AND 'C' PROGRAMMIN'S Max. Marks: 100 Note: 1) Answer Five full question choosing One full question from each Unit. 2) Draw diagrams wherever necessary. Marks BT	
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Wall Hand Second Semester B.E. (Credit System) Degree Examinations Duration: 3 Hours PIONUTTI 1 C 000 Note: Answer Five full questions choosing One full question from each Unit. Explain the different types of monitors Classify the differences between system software and application software. How do you classify the computer systems based on individual? Explain each category. Explain the classification of operators in C. Discuss relational, logical and bitwise Define a variable. How do you declare a variable? Explain with examples. How do you represent data in computer systems? Explain. Write a note on optical input devices. Write the algorithm and flow chart to find whether the number is even or odd Write a C program to convert the temperature in Fahrenheit to Celsius. Explain the different types of printers. Explain how type conversion takes place in C. Explain the conditional operator with an example. Explain the significance of printf and scanf statements. Develop a C program to find the second biggest of 3 integer values. NMAM INSTITUTE OF TECHNOLOGY, NITTE 16CS111 - COMPUTER CONCEPTS AND 'C' PROGRAMMING Unit - II Unit - III 000 Max. Marks: 100 00 400 00 00 00 400

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Explain how a function returns a value to a calling function with an example.

Unit - IV

Develop a C program that will demonstrate how a string of characters are copied to

Write a C program to read two matrices A(MXN) and B (PXQ) and perform addition of two

Explain how you can pass array as parameters to functions.

Design a program to find sum of n natural numbers using for loop What is the use of goto statement in C? Explain with an example. Differentiate between the else....if ladder and the switch statement

Differentiate between while and do....while statements.

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matrices. Display the result in matrix form.

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to read and display student details.

Bring out the differences between a structure and union.

Write a C program using structures to maintain student records. Use necessary functions

What is a pointer? How pointers are used to access the structure members? Explain with

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How do you initialize two dimensional arrays? Explain with examples "Functions saves memory and time" How do you justify this?

Write a C program to copy contents of one file to another file

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