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Total Number of Pages: 2	AR-18											B.T
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Time: 3 Hours Maximum: 100 Marks

Answer ALL Questions

The figures in the right hand margin indicate marks.

PART - A: (Multiple Choice Questions) 10 x 2=20 Mark

Q.1. Answer All Questions

- The format specifier for long int and float are:
 - a) %ld and %f b) %long and %f c) %i and %f d) None of these
- b Find the output for below Given code:

int x=20, y=30,z; z=(x< y)+10;printf("%d",z); options:

a) 10 b) 1 c) 11 d) error

Given: printf("abhi\bla\b\byash");

The output is:

- a) Abhilayash b)abhlayash c)abhyash d)abhi\bla\b\byash
- The keyword used to transfer control from a function back to the calling function is: d
 - a) Return b) exit() c) break d) continue
- A set of consecutive memory locations having homogeneous elements is called: e
 - a) Structure b) Array c) Pointer d) Function
- Complexity of linear search algorithm is:
 - a) O(N) b) $O(\log N)$ c) $O(N^2)$ d) $O(N \log N)$
- what is prototype of a function in C
 - a) It is the return type of a function b)It is the return data of the function
 - c) It is declaration of a function
- d)It is a data type
- Any type of modification on the parameter inside the function will reflect in actual variable value can be related to:
 - a) call by value b)call by reference c)both of above d) none of above
- Structures can be used
 - a) to hold different data types b)have pointers to structures
 - c) to assign to one another d) all of above
- Difference between structure and union is:
 - a) We can define functions within structures but not within a union
 - b) We can define functions within union but not within a structure
 - c) The way memory is allocated
 - d) There is no difference

PART - B: (Short Answer Questions) 10X2=20 Marks

Q.2. Answer <u>ALL</u> questions

- Write down the syntax and example on statements: printf, scanf
- How does bitwise operator XOR works? b
- Find the output when we execute the below statements: c

int x,y,z,a; x=30;y=20;z=10;a=x>y>z; printf("%d",a);

- What is an infinite loop?
- What is continue statement and why we use it?





f What will be the output and why?

main()

{ printf("%c", "abcdef"[4]); }

Explain about the characteristics of storage classes: static, register.

- h What is the difference between strcmp() and stricmp() functions?
- i What is a NULL pointer?
- j When to user -> (arrow) operator.

PART – C: (Long Answer Questions) 4X15=60 Marks

Answer ALL questions

Q.3 Write down the syntax of else if ladder and switch...case and then state the difference between them. 7 Write a program to find greatest among 3 numbers using switch..case What is an algorithm and flowchart? Draw the flowchart and write algorithm for accepting a number 8 b and check whether it is prime or not. OR Explain briefly about the basic structure of a c program. c 7 Write a program to accept arithmetic operator and two operands. Find the result as per the operator 8 d symbol entered using else if ladder. Q.4 Write a program to accept 10 numbers in to an array and sort it using insertion sort in ascending order. 7 Write a program to check how many prime numbers and perfect numbers exist within 1to 100. 8 b Write down the difference between Entry Controlled vs. Exit Control loop with suitable example. c 7 Write a program to print Alphabets from 'A' to 'Z' using while. Write a program to input elements into 4×4 matrix and find the principal diagonal 8 d Q.5 Write a program to input two numbers and find the GCD of them using a recursive function. 7 a Write a program to generate Fibonacci series of N numbers using a recursive function. 8 b Write a program to find GCD of two integers using a recursive function. 7 c Briefly explain all the storage classes and their characteristics. State the difference between auto and d 8 static with an example. 0.6 Write a program to create user defined function called swap having two integer pointers as its arguments and it has no return value. Call this function for interchanging two values using call-by-7 address. Write a program to input 10 integers into an array. Create an UDF which accepts the base address of 8 array and finds the sum of even numbers and sum of odd numbers separately. Write a program to create a structure for employee code, name and salary. Store five employee 7 details using structure array and display only employee names whose salary is greater than 25000. Write a program to create user defined function called swap having two integer pointers as its 8 arguments and it has no return value. Call this function using call-by-address. ==0==