

QUESTION BANK MBU

C LANGUAGE

(100 marks)

1.Short questions: -

(20 * 2 = 40)

1. Write the general structure of C? Explain with an example.
2. What is variable? List the restrictions on the variable names.
3. List all the operators used in C. Give examples.
4. What is the purpose of scanf() and printf () statement?
5. Types of Control Structures and explain their types.
6. Write an infinite loop using for, while and do while loop.
7. Write a C program to find the biggest of three numbers.
8. Show how break and continue statements are used in a C program, with example.
9. Write a C program to read N integers into an array A and to find the average of all numbers.
10. Write a C Program to implement string copy operation STRCOPY (str1, str2)
11. What is function?
12. Write a function to find the sum of two numbers.
13. What is pointer? Explain how the pointer variable declared and initialized?
14. Write a C program to find the sum and mean of all elements in an array using pointer.
15. Write a C program to swap two numbers using call by address (pointers or reference) method.
16. Explain how pointers and arrays are related with example.
17. What is a structure?
18. What is a Union?
19. Difference between structures and union.
20. What is a macro? write a macro to determine whether the given number is odd or even.

2. Big questions: -

(5 * 8 = 40)

1.

Find the maximum and minimum of two numbers without using conditions, looping and inbuilt functions of max and min.

(or)

Write a program to check which number is greater out of 3 given numbers.

2.

Write a C program to find the transpose using matrix.

(or)

Write a C program to check whether the given string is palindrome or not without using inbuilt function.

3.

Write a C program to swap two numbers using call by address (pointers or reference) method.

(or)

Write a program to maintain a record of “n” employee detail using an array of structures with three fields (id, name, salary) and print the details of employees whose salary is above 5000.

4.

Write a C program to check whether the given character is alphabet, number or symbols and print its ASCII value of it.

(or)

Write a C program to find whether the given number is even or odd number without using arithmetic and relational operator.

5.

Write a C program to find whether the given year is leap year or not using nested if else statement.

(or)

Write a C program to find the second greatest of three numbers.

3.Compulsory questions: -

(10 * 2 = 20)

1.

Write a C program to remove all vowels from the given sentence.

Input : I am studying in MBU College, Tirupati.

Output : m stdyng n MB Cllg, Trpt.

2.

(a) Write a C program to print a pattern as a diamond shape (5)

(b) Write a program to print pattern as a hallow square diagonal (5)