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Sub Code: 19KBPPS13/23

KHAJA BANDANAWAZ UNIVERSITY
FACULTY OF ENGINEERING AND TECHNOLOGY

Second Semester B.E. Degree Examination - 2020

Sub: C Programming for Problem Solving

Time: 3 Hours

Max. Marks: 100

Model Question Paper-2

Section-A

I. Answer any TEN questions from the following:

(02 Marks Each)

- Q1. Define Computer? What are the components of a Computer System?
- Q2. What do you mean by Syntax and logical error?
- Q3. Mention the different types of Operators available in C.
- Q4. With the help of their general syntax mention the formatted input/output functions in C.
- Q5. Define looping? What are the different types of looping statements in C?
- Q6. What do you mean by Searching? Mention any three commonly used sorting Techniques.
- Q7. Briefly explain how two dimensional arrays are declared and initialized.
- Q8. What are the components of a user defined function?
- Q9. Define Pointer? Give the general syntax how pointers are declared
- Q10. What do you mean by Compiler? How it is different from Interpreter.
- Q11. Define Operating System? Mention the different types of Operating Systems.
- Q12. Define String? Mention any 4 String Handling Functions in C.
- Q13. Write the general syntax of SWITCH statement.
- Q14. With the help of general syntax briefly explain how 1-Dimensional Array is declared?
- Q15. Define the following:
 - a. Interpreter
 - b. Assembler

Section-B

II. Answer any FIVE Full questions from the following: (08 Marks Each)

- Q1. With the help of an example program explain ladder if else.
- Q2. Write a C program to search a given number in a set of integer numbers using binary search Technique.
- Q3. Explain the different types of functions based on the number of parameters..
- Q4. Write a C program to copy the content of one File to another.
- Q5. Write a C program to sort N integer numbers using bubble sort
- Q6. What is Type Conversion? Illustrate different ways of type conversion with an example
- Q7. Write C programs to display 1 to 10 integer numbers on the output using while and do While statement
- Q8. a. With the help of general syntax explain for statement in C.
b. What are C Tokens? Briefly explain them..

Section-C

III. Answer any FOUR Full questions from the following: (10 Marks Each)

- Q1. With the help of general syntax explain switch statement. Write a C program to simulate Simple Calculator.
- Q2. Explain if, if else and cascaded if with their general syntax and example program.
- Q3. Write a C program to perform multiplication of two matrices
- Q4. Write a C program to display Fibonacci series using recursive function
- Q5. What is the need of realloc function? Explain with the help of an example program.
- Q6. a. Explain with example how pointers are declared and initialized.
b. What are actual parameters and formal parameters? Illustrate with the help of an Example.
- Q7. a. Write a C program to check whether the given number is a palindrome or not..
b. Briefly explain the two parameter passing techniques in C.