

**KKSU/W/21**

**KAVIKULAGURU KALIDAS SANSKRIT  
VISHWAVIDYALAYA, RAMTEK**

**Bachelor of Computer Application (BCA) (New)**

**First Semester Examination**

**Paper IV – 'C' Programming**

**Time – 3 hrs.**

**Total Marks - 80**

**Note – All questions are compulsory and carry equal marks.**

**Q.1 Long answer. (any one out of two) 01x12=12**

- a) Explain the programming structure of C program with suitable example.
- b) Define Following Term
  - i) Sequence
  - ii) Selection
  - iii) Interaction
  - iv) Modular

**Q.2 Long answer. (any one out of two). 01x12=12**

- a) Explain the following term.
  - i) C character set
  - ii) Tokens
  - iii) Identifier
  - iv) Keywords
  - v) Variables
  - vi) Constants
- b) Explain two way selection structure (if, if-else, nested if-else, if-else-if ladder) in 'C' programming with syntax & suitable example.

**Q.3 Long answer. (any one out of two). 01x12=12**

- a) What is function? give details about function components. Also explain the type of function with suitable example.
- b) What is array? Explain the declaration & initialization of one dimensional and two dimensional array with suitable example.

...2...

- Q.4 Long answer. (any **one** out of two). **01x12=12**
- a) Explain union & structure with their syntax & with suitable example.
  - b) What is Pointer? Explain the use of address operator (&), pointer variables, void pointers, & pointer Arithmetic with suitable example.
- Q.5 Short notes. (any **four** out of six). **04x05=20**
- a) Define the term Flowchart. Draw a Flowchart to calculate the area of Rectangle.
  - b) Write a C program to print the Prime Numbers between 1 to 100 using break statement.
  - c) Explain For-Loop in brief. Write a 'C' program to print even numbers from 51 to 120.
  - d) Explain string manipulation library with their syntaxes & with suitable example.
  - e) What is Recursive Function? Write a 'C' program to calculate the Factorial of Number using Recursive Function.
  - f) Explain the Difference between structure and union.
- Q.6 Short answer. (All questions compulsory) **06x02=12**
- a) Define the following term.
    - i) Sequence
    - ii) Interaction
  - b) Demonstrate the switch statement with their syntax.
  - c) Explain 'Go To' statement with example.
  - d) What is mean by call by value & call by reference.
  - e) Define string. How string is declared in program?
  - f) Explain Command Line Argument.

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