



41124/A240

Reg. No.

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I Semester B.C.A 4 Degree Examination, Nov./Dec. - 2019
PROGRAMMING IN 'C'
(Repeater/Regular)

Time : 3 Hours**Maximum Marks : 80****Instructions to Candidates:**

1. **Answer all the Sections**

SECTION-A

Answer **all** the questions:**(10×2=20)**

1. a) Define algorithm and state its characteristics.
b) What are advantages of flow chart?
c) What is symbolic constant?
d) List different format specifiers.
e) Mention relational and logical operators.
f) State the syntax of if - else statement.
g) What are storage classes? Mention different types of it.
h) What are actual and formal arguments?
i) What is a string? How to declare it?
j) What is a union? How to define it?

SECTION - B

Answer any **four** of the following:**(4×5=20)**

2. Differentiate between High Level Language and Machine Level Language.
3. Explain unformatted I/O statements with example.
4. Differentiate between entry controlled loop and exit controlled loop.
5. Write a program to find length of a string without using string function.
6. What is a structure? How to define and declare it? Explain with an example.

P.T.O.

**SECTION- C**

Answer any **four** of the following:

(4×10=40)

7. Discuss different steps of problem solving using computer. **(10)**
8. a) Explain for loop with syntax & example.
b) Write a program to check whether an alphabet is vowel or consonant. **(5+5)**
9. a) What is a constant? Explain different types of constants.
b) Discuss increment and decrement operators. **(5+5)**
10. a) Explain error handling during I/O operations.
b) Write a program to add two matrices. **(5+5)**
11. Write short notes on any two:
i) String handling functions.
ii) Command line arguments.
iii) Branching statements. **(5+5)**
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