

Roll No. :

Total No. of Questions : 11]

[Total No. of Printed Pages : 3

D-201

B.C.A. (Part-I) Examination, 2023 FUNDAMENTALS OF COMPUTER PROGRAMMING

Paper - BCA-106

Time : 3 Hours]

[Maximum Marks : 70

Section-A

(Marks : 2 × 10 = 20)

Note :- Answer all *ten* questions (Answer limit **50** words). Each question carries **2** marks.

Section-B

(Marks : 4 × 5 = 20)

Note :- Answer all *five* questions. Each question has internal choice (Answer limit **200** words). Each question carries **4** marks.

Section-C

(Marks : 10 × 3 = 30)

Note :- Answer any *three* questions out of five (Answer limit **500** words). Each question carries **10** marks.

Section-A

1. (i) What is the meaning of infinite loop ?
- (ii) What do you mean by pseudo codes ?
- (iii) What is modular programming ?
- (iv) Define logic in programming.
- (v) What is linker ?

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- (vi) What do you mean by scripting language ?
- (vii) Write the full form of FORTRAN.
- (viii) Who invented the 'C' Language ?
- (ix) What is the meaning of comments ?
- (x) What is the meaning of syntax error ?

Section-B

2. Explain struture charts.

Or

What is the role of planning in coding ?

3. Explain the use of indentation.

Or

Explain iteration logic.

4. Explain the following :

- (i) Machine language
- (ii) Compiler

Or

Explain the Natural Languages.

5. Explain the feature of C++ Language.

Or

Explain the Subprograms.

6. Explain the concept of Libraries.

Or

Explain Documentation Comments.

Section-C

7. What is Generalized Algorithms and how to avoid infinite loops in Algorithm ?
8. Explain selection logic and functions (types and usage).
9. Explain the following :
 - (i) Any *two* programming language advantages and limitations.
 - (ii) How scripting language works ? Explain with suitable example.
10. Explain the characteristics of JAVA and Python.
11. Write short notes on the following :
 - (i) Testing and its types
 - (ii) How to debug syntax and logic error