BCA-1001

B. C. A. (First Semester)

EXAMINATION, 2022-23

Paper First

COMPUTER FUNDAMENTAL AND

PROBLEM SOLVING TECHNIQUES

Time : Two Hours]   [*Maximum Marks : 75*

Note : This paper consists of three Sections A, B and C. Carefully read the instructions of each Section in solving the question paper. Candidates have to write their answers in the given answer-copy only. No separate answer-copy (**B Copy**) will be provided.

P. T. O.

Section—A

(Short Answer Type Questions)

Note : All questions are compulsory. Answer the following questions as short answer type questions. Each question carries 5 marks.

1. (A) Explain block diagram of computer.

   (B) Explain characteristics of computer.

   (C) Differentiate between static RAM and dynamic RAM.

   (D) What do you understand by batch files ?

   (E) Explain the features of Linux operating system.

   (F) Differentiate between header and footer in MS-Word.

   (G) Explain the features of super computer.

   (H) What do you understand by problem analysis in problem solving technique in computer ?

   (I) Draw a flowchart to calculate simple interest.

Section—B

(Long Answer Type Questions)

Note : This section contains four questions from which *one* question is to be answered as long question. Each question carries 15 marks.

2. Explain primary and secondary memory of computer.

Or

3. (i) Explain the types of Computer.

   (ii) Differentiate between High and Low-level language.

Or

4. Convert the following :

   (i) $(ABC)_{16} \rightarrow (?)_{10}$

   (ii) $(125 \cdot 25)_{10} \rightarrow (?)_2$

   (iii) $(325)_8 \rightarrow (?)_{10}$

   (iv) $(1101 \cdot 1)_2 \rightarrow (?)_{10}$

Or

5. Explain internal and external commands of Disk Operating System (DOS) with example.

Section—C

(Long Answer Type Questions)

Note : This section contains four questions from which *one* question is to be answered as long question. Each question carries 15 marks.

6. What do you understand by problem solving techniques in computer ? Explain all steps involved in problem solving.

Or

7. (a) What are the various basic symbols used in flowchart ? https://www.csjmuonline.com

   (b) Explain the features of Windows Operating System.

Or

8. (a) What is sorting ? How can you sort a cell range in MS-Excel ?

   (b) What do you understand by slide transition ? Write down the advantages of MS-PowerPoint.

Or

9. (a) Explain input and output devices of computer.

   (b) What do you understand by an Algorithm ? Explain characteristics of an algorithm.

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