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BCA I Semester Examination, Feb/March - 2024
Paper: DSC 02
Subject: Fundamentals of Computer

Duration of Paper: 2Hrs   Maximum Marks: 60

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Instruction to Candidates:

1) All questions are compulsory.
2) Draw neat diagrams wherever necessary.

1. **Answer any six questions.**   6X2=12
   a. List any four characteristics of computer.
   b. Name the basic material used in third generation computer.
   c. $973_{(10)}$=_____ (2)
   d. What is Assembler?
   e. What is 'bc' command in UNIX Operating system?
   f. List any two applications of DBMS.
   g. What is DNS?
   h. What is search Engine? Name any two Search Engines.

2. **Answer any three questions.**   3X4=12
   a. Describe II and III generation computer.
   b. With neat block diagram of computer explain working of CPU.
   c. Write difference between Analog and Digital computer.
   d. Explain micro and mainframe computers.

3. **Answer any three questions.**   3X4=12
   a. i. $110111_{(2)}$=--------$_{(10)}$
      ii. $467_{(8)}$ = -----------$_{(2)}$
   b. Explain basic Boolean algebra operations with truth tables and logic gates.
   c. Distinguish between compiler and interpreter.
   d. What is flow chart? List the symbols used in flow chart with example.

4. **Answer any three questions.**   3X4=12
   a. Describe primary objectives of an operating system.
   b. Describe Application program and utilities.
   c. Explain Time Sharing & Multiprogramming Operating System.
   d. Describe following commands with examples.
      i) cal   ii) wc   iii) who   iv) head