

2024

**Computer Science**

*(Discipline Specific Core)*

**Paper Name: Computer Fundamentals**

Paper Code: **BCA-DSC-141**

*Full Marks: 45*

*Time: Two Hours*

***(The figures in the margin indicate full marks for the questions)***

*Answer in English*

**1. Answer the following questions as directed: 1x4=4**

(a) Write the full form of ASCII.

(b) \_\_\_\_\_ html tag is used for linking. **(Fill in the blank)**

(c) In binary number system, the computer accept only-

**(Choose the correct option)**

- i. 0
- ii. 1
- iii. both (i) & (ii)
- iv. None of these.

(d) What is the full form of OCR?

**2. Answer the following questions: 2x3=6**

(a) Differentiate between volatile and non-volatile memory with an example of each.

(b) What is the basic syntax of html?

(c) Convert 345 into binary system.

**3. Answer the following questions (any three):** **5x3=15**

- (a) What do you mean by computer software? What are the types of it? Give example of each type. Draw the flowchart for finding the first  $n$  terms of a Fibonacci series.
- (b) Explain briefly the differences between high level and low-level language.
- (c) Define the following terms,
  - i. Trackball
  - ii. MICR
  - iii. OCR
  - iv. Pointing Device
  - v. Digitizer
- (d) Differentiate between SRAM and DRAM.

**4. Answer any two of the following questions:** **10x2=20**

- (a) Define Registers. Explain briefly the general purpose registers and special purpose registers with suitable examples.
- (b) Describe briefly about the network topologies with diagram.
- (c) Explain briefly about the different components of a computer with neat and clean diagram.
- (d) What do you mean by computer memory? What are the different types of it? Find out the differences among different computer memory.

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