BCA-01/DCA-101

June - Examination 2026

BCA (Part-I)/DCA Examination

Introduction to Computer Science

Paper : BCA-01/DCA-101

[*Time:* ***3*** *Hours*] [*Maximum Marks: 7****0***]

Note :- The question paper is divided into three Sections A, B and C. Write answers as per the given instructions in each section.

Section-A **7×2=14**

(Very Short Answer Type Questions)

Note :- Answer **all** questions. As per the nature of the question delimit your answer in one word, one sentence or maximum up to **30** words. Each question carries **2** marks.

1. (i) What are input devices? Give any four examples.

   (ii) What is ASCII code?

   (iii) What is an operating system?

   (iv) What are internal and external commands in DOS?

   (v) Define Cryptography.

   (vi) What is E-Commerce? Mention its advantages.

   (vii) Differentiate between B2B and B2C E-Commerce.

Section-B **4×7=28**

(Short Answer Type Questions)

Note :- Answer **any four** questions. You have to delimit your each answer maximum up to **200** words. Each question carries **7** marks.

2. Differentiate between octal and hexadecimal number system.
3. Explain Internet Services and Applications.
4. Explain different E-Commerce models with examples.
5. Explain the booting process of a computer.
6. Explain Cybercrime and methods to prevent them.
7. Explain memory hierarchy in detail.
8. Draw the Client-Server model and explain it.
9. Explain the concept of file management.

Section-C 2×14=28

(Long Answer Type Questions)

Note :- Answer **any two** questions. You have to delimit your each answer maximum up to **500** words. Each question carries **14** marks.

10. Explain the use of computers in education, healthcare and banking sectors.

11. Explain how poor process management can affect system performance when many programs are running simultaneously.

12. Compare traditional reporting systems with MIS-based reporting systems.

13. Convert the following number system -

(i) $(2558)_{10} = (?)_2$

(ii) $(1010101010)_2 = (?)_{10}$

(iii) $(111001101)_2 = (?)_{16}$

(iv) $(2AB)_{16} = (?)_2$

(v) $(127)_8 = (?)_{10}$

(vi) $(1111)_2 = (?)_{10}$

(vii) $(550)_{10} = (?)_{16}$

(viii) $(198)_{10} = (?)_2$

(ix) $(ABC2)_{16} = (?)_2$

(x) $(11111100)_2 = (?)_{10}$
