

BCA-01/DCA-101

June - Examination 2019

BCA Pt. I/DCA Examination**Introduction to Computer Science****Paper - BCA-01/DCA-101****Time : 3 Hours]****[Max. Marks :- 70**

Note: The question paper is divided into three sections A, B and C. Write answers as per given instructions.

Section - A**7 × 2 = 14**

(Very Short Answer Questions)

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

- 1) (i) ____ and ____ are two major components of CPU.
- (ii) OCR stands for _____ .
- (iii) What is volatile memory?
- (iv) If a computer code consist of n bits, how many different characters/symbols can be represented using that code?
- (v) Why operating system can be termed as 'resource manager'?
- (vi) What do you mean by digital signal?

(vii) Give one advantage of leased line connection.

Section - B

4 × 7 = 28

(Short Answer Questions)

Note: Answer **any four** questions. Each answer should not exceed 200 words. Each question carries 7 marks.

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| 2) | (i) Classify computers according to the technology used. | 3 |
| | (ii) Explain in brief about following input devices | 4 |
| | (a) Joystick (b) Trackball (c) Scanner (d) Mouse | |
| 3) | (i) Write in brief about disk allocation methods. | 3 |
| | (ii) Write short note on ASCII and EBCDIC codes. | 4 |
| 4) | (i) Explain basic requirements that drive memory designs. | 3 |
| | (ii) Differentiate between multiuser and multitasking operating system. | 4 |
| 5) | (i) Explain syntax and working of fdisk and mkdir DOS commands, giving an example for each. | 4 |
| | (ii) Explain the role of Control Panel in Windows operating system. | 3 |
| 6) | (i) Write short note on Delta Modulation. | 3 |
| | (ii) Explain following Security Principles | 4 |
| | (a) Confidentiality (b) Availability | |
| 7) | (i) Write a short note on Web TV. | 3 |
| | (ii) What is Cryptography? Explain the term Plain Text and Cipher Text with respect to Cryptography. | 4 |

- 8) (i) What is MIS? Give two advantage of MIS. 5
 (ii) What is difference between Debit Card and Credit Card? 2
- 9) Explain in detail various security threats to E-Commerce. 7

Section - C

2 × 14 = 28

(Long Answer Questions)

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

- 10) (i) Explain the architecture of computer with suitable block diagram. 4
 (ii) Explain in brief about following output devices 3
 (a) Monitor (b) Printers (c) Plotters
 (iii) Describe memory hierarchy with suitable diagram. 4
 (iv) What is the need of computer codes? 3
11. (i) Compare file system of Windows and UNIX with suitable diagram. 6
 (ii) What are the application areas of embedded operating systems? 3
 (iii) Differentiate between internal and external DOS commands, giving an example of each. 5

12. (i) Explain in brief about following components of WINDOWS operating system:- 6
(a) Toolbars (b) Briefcase (c) Windows Explorer
- (ii) Differentiate between Analog and Digital Signal. 4
- (iii) Compare Web Browser and Search Engine. 4
13. (i) Explain any two types of Attacks with respect to Computer Security. 5
- (ii) How Digital Signatures are used for authentication? 5
- (iii) Explain any two characteristics of MIS. 4
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