

BCA-01/DCA-101

December - Examination 2018

BCA Pt. I/DCA Examination**Introduction to Computer Science****Paper - BCA-01/DCA-101****Time : 3 Hours]****[Max. Marks :- 100**

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

Section - A**10 × 2 = 20**

(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) What is digital signal?
- (ii) What is ISDN?
- (iii) What do you mean by magneto-optical storage?
- (iv) Windows is family of operating system by?
- (v) EBCDIC stands for
- (vi) Second generation computers used
- (vii) List two advantages of E-Commerce.
- (viii) Mouse is an (input/output) device.

- (ix) MIS is abbreviation for
- (x) What is cryptography?

Section - B**4 × 10 = 40**

(Short Answer Questions)

Note: Answer **any four** questions. Each answer should not exceed 200 words. Each question carries 10 marks.

- 2) Explain the concept of digital signature.
- 3) Write a short note on antivirus software.
- 4) Explain various memory management algorithms.
- 5) How control panel helps in managing MS-Windows?
- 6) What are various functions of operating system?
- 7) Differentiate between external and internal DOS commands with suitable example.
- 8) What is role of Internet Service Provider?
- 9) What are characteristics of good MIS?

Section - C**2 × 20 = 40**

(Long Answer Questions)

Note: Answer **any two** questions. You have to delimit your each answer maximum upto 500 words. Each question carries 20 marks.

- 10) (i) Explain in detail semiconductor and magnetic storage types.
- (ii) Give a brief overview of following input devices:-
(a) Trackball (b) Bar Code Reader
(c) Joystick (d) Scanner
- 11) (i) Differentiate between application software and system software giving example of each.
- (ii) Give a brief overview of following computer codes:-
(a) ASCII (b) BCD
- 12) (i) What is meant by 'Data Encoding'? Give a brief overview of
(a) Encoding of digital data into digital signals.
(b) Encoding of digital data into analog signals.
- (ii) What are various security threats to E-Commerce?
- 13) Write short note on (any two):-
- (i) Disk Allocation Methods.
- (ii) Real Time Operating Systems and Embedded Operating systems.
- (iii) Viruses and Firewalls.