BCA-01/DCA-101

December - Examination 2016

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 $10 \times 2 = 20$

(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) Give an example each of, application software and system software.

(ii) What are impact and non-impact printers?

(iii) What do you mean by magneto-optical storage?

(iv) What is a process?

(v) What are internal DOS commands?

(vi) What is analog signal?

(vii) What is ISDN?

(viii) What is web browser? Give an example of web browser.

(ix) In context of cryptography, what is meant by term 'Plain Text'.

(x) List two advantages of E-Commerce.

Section - B $4 \times 10 = 40$

(Short Answer Questions)

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

2) What are various security threats to e-commerce?

3) What are characteristics of good MIS?

4) Explain the concept of digital signature.

5) Write a short note on antivirus software.

6) Compare LAN, MAN and WAN.

7) What advantages and disadvantages do operating systems supporting GUI (like Windows), have over CUI operating systems (like DOS)?

8) Explain various memory management algorithms.

9) Explain various levels of memory hierarchy.

Section - C $2 \times 20 = 40$

(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) Explain various computer generations in detail, specifying technology used in each generation.

11) Give a brief overview of following computer codes:

(i) ASCII

(ii) BCD

(iii) EBCDIC

(iv) 8421

12) Explain various types of operating systems with their key features.

13) What is meant by 'Data Encoding'? Give a brief overview of:

(i) Encoding of digital data into digital signals.

(ii) Encoding of digital data into analog signals.

(iii) Encoding of analog data into digital signals (Pulse Code Modulation and Delta Modulation)

(iv) Encoding analog data into analog signals.

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