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Total No. of Printed Pages: 1

Total No. of Questions: [09]

BCA-MCA Dual Degree (Semester – 1st)
INTRODUCTION TO INFORMATION TECHNOLOGY
Subject Code: BMCAS1102
Paper ID: [19340102]

Time: 03 Hours

Maximum Marks: 60

Instruction for candidates:

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A

(2 marks each)

Q1. Attempt the following:

- a. Illustrate the significance of hexadecimal number system.
- b. Explain the role of operating system in a computer.
- c. What is the significance of cache memory?
- d. Justify the word-processing capability of MS-Word.
- e. How numbers and characters are represented in computer memory?
- f. What do you mean by system software? Give examples
- g. Discuss the advantages of a multi-programming operating system with examples.
- h. How an interpreter is different from a compiler?
- i. Differentiate between internet and intranet.
- j. Explain the usage of FTP.

Section – B

(5 marks each)

Q2. Do the following conversions:

- a. Convert $(548)_8$ to the hexadecimal number system.
- b. Convert $(10.25)_{10}$ to the octal number system.

Q3. Explain the different types of operating systems. Discuss with examples and their usability.

Q4. Explain the various types of computer languages along with their applications.

Q5. Describe the working mechanism of Dot Matrix printer.

Q6. a) Differentiate between World Wide Web and Internet.

b) What is the importance of web cookies?

Section – C

(10 marks each)

Q7. What are the different types of storage units available in a computer system? Highlight their differences.

Q8. Explain the working of different components of a computer system using a block diagram.

Q9. Define network topology. Explain different types of network topologies along with their merit and demerit.