

Paper Code & Roll No. to be filled in your Answer Book

Roll No.

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BCA (I Semester)

Even End Semester Examination-2015

FUNDAMENTALS OF COMPUTERS

Time : 3 Hours]

[Maximum Marks : 70

Unit-1

(2x7)

- Q1. With the help of a block diagram, explain the basic organization of a computer system.
- Q2. Explain how an output is displayed using a CRT monitor with the help of a neat diagram. Explain the printing mechanism of a laser printer.
- Q3. Differentiate the following:
- (i) Magnetic disk and magnetic tape
 - (ii) Volatile and non volatile memory

Unit-2

(2x7)

- Q4. What are external DOS commands? Explain the function of the following commands with syntax.
- (i) CHKDSK
 - (ii) DISKCOMP
 - (iii) TREE
 - (iv) RESTORE

Q5. What is an operating system? Give three advantages of windows over DOS operating environment.

Q6. Why is a computer connected to an internet? Write an algorithm and draw a flowchart that will find and print the product of 3 numbers.

Unit-3 (2x7)

Q7. What are data types? Explain its different types. Explain the memory representation of unsigned int a=7.

Q8. Explain array of structures and structure within a structure with examples.

Q9. What is a pointer? Explain how the pointer variable declared and initialized.

Unit-4 (2x7)

Q10. Compare top down and bottom up design methodology with example.

Q11. What is debugging? How does it differentiate from testing?

Q12. What is application software? Compare it with system software.

Unit-5 (2x7)

Q13. Explain the four categories of programming language. Also, indicate the category that is perceived to be the hardest to program.

Q14. Write a short note on High level language with example.

Q15. Write a short note on assemble language programming. Also describe the role of accumulator in assembly language programming.