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I Semester B.C.A 4 Degree Examination, Nov./Dec. - 2019

COMPUTER FUNDAMENTAL

(Regular and Repeater)

Paper : BCA 4

Time : 3 Hours

Maximum Marks : 80

Instructions to Candidates:

1. All the three Parts are compulsory
2. Draw diagram where necessary.

PART-A

Answer the following questions:

(10×2=20)

1. a) A computer is also referred to as a computer system. Justify.
b) State the function of output unit.
c) What do you understand by the term base of a number system? State the base of octal and hexadecimal number system.
d) What is non - positional number system?
e) Name the units used to express:
i) Processor speed
ii) Memory capacity
f) Why I/O devices are called peripheral devices?
g) What are the two modes of editing text in Ms Word? Explain briefly.
h) Define the term software. Name the two basic types of software.
i) Define operating system. Give two examples.
j) What is the purpose of title bar in windows operating system?

PART - B

Answer any FOUR questions:

(4×5=20)

2. Draw the neat block diagram and explain the basic organization of computer system.
3. What is binary arithmetic? Explain the four rules in respect of.
i) Binary multiplication
ii) Binary division
4. Discuss the evaluation criteria for storage unit of computer.

P.T.O.



5. Distinguish between system software and application software.
6. Write a note on (any one):
 - i) Desktop
 - ii) Display properties

PART - C

Answer any **FOUR** full questions:

(4×10=40)

7. a) Why computer is often referred as data processor? Support your explanation with neat diagram.(5)
b) Discuss the characteristics of computer. (5)
8. a) i) Convert the given binary number $(11011)_2$ to its equivalent octal, decimal and hexadecimal number.
ii) Convert the given decimal number $(245)_{10}$ to its equivalent binary and octal number.(5)
b) Explain the different number system and state their base and symbols (digits) in them. (5)
9. a) Draw a neat diagram of magnetic disk and explain how data is organized on disk. (5)
b) Draw a neat diagram illustrating the role of I/O devices in computer system and explain.(5)
10. a) Explain formatting of text. (5)
b) What is application software? Explain briefly any two application software. (5)
11. a) Draw neat diagram of logical architecture of computer system, showing operating system & explain. (5)
b) Explain (any one):
 - i) Task bar
 - ii) Files and Folders (5)