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I Semester B.C.A. 4 Degree Examination, April- 2023**COMPUTER FUNDAMENTALS****(Repeater)****Time : 3 Hours****Maximum Marks : 80****Instructions to Candidates :**

- 1) All the three sections are compulsory
- 2) Draw diagram if necessary.

SECTION - A

Answer the following questions

(10×2=20)

1. a) What is digital computer?
- b) Expand PROM and EPROM.
- c) Name the Types of number system.
- d) Name the types of Computer codes
- e) What is secondary memory? Give example.
- f) Expand USB.
- g) Define mother board.
- h) Define Hardware. Give examples.
- i) What is unix operating system.
- j) Write the purpose of 'ls' and 'echo' commands in Linux operating system.

SECTION - B

Answer any Four questions.

(4×5=20)

2. Explain ALU and C.
3. Write the rules for converting binary number system to decimal number system.
4. Explain any two output devices.
5. Explain Real time and multi programming operating system.

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6. State the purpose of following commands.

- i) mkdir
- ii) echo
- iii) ls
- iv) rd
- v) mv

SECTION - C

Answer any **Four** full questions.

(4×10=40)

- 7. a) Explain basic operations of computer. (5)
 - b) Briefly explain characteristics of computer. (5)
 - 8. a) Explain basic arithmetic operations using binary numbers. (5)
 - b) i) Convert the given binary number $(10001)_2$ to its equivalent octal decimal and hexadecimal number system. (5)
 - ii) Convert the given decimal number $(185)_{10}$ to its equivalent binary and octal number.
 - 9. a) Explain optical memory devices. (5)
 - b) Explain any two output devices. (5)
 - 10. a) Write the features of MS-Word. (5)
 - b) Write the features of Linux operating system. (5)
 - 11. a) Draw a neat diagram of desktop and explain. (5)
 - b) Write a short note on
 - i) Files and folders.
 - ii) Basic components of windows. (5)
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