



First Term Exam - 2072

Subject: Computer Science

FM: 75

PM: 30

Grade: XI

Time: 3:00 Hrs

Set A

Group A

Attempt **all** questions: [3×10=30]

1. What is computer system? Explain the major eight applications of computer. [2+8]
2. What is logical gate? Describe OR Gate, NAND Gate and XOR Gate. [1+9]
3. Define computer architecture. Describe logical block diagram of computer system. [1+9]

Group B

Attempt **all** questions: [5×9=45]

4. Define hardware, software and firmware with respective examples.
5. Explain the contribution of Charles Babbage in the history of computer.
6. What is mobile computing? Explain the advantages and disadvantages of mobile computing.
7. Differentiate between Minicomputer Computer and Mainframe Computer.
8. What is hexadecimal number system? Convert (A54.45)₁₆ into octal number system.
9. What is 2's complement? Subtract 1101 from 1100 using 2's Complement.
10. State and prove the distributive laws of Boolean algebra.
11. What is MS DOS? Explain the advantages and disadvantages of MS DOS.
12. Write notes on:
 - System Tools
 - Word Processor

Good Luck



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Set B

Group A

Attempt **all** questions: [3×10=30]

1. What do you mean by generations of computers? Explain major features and technologies used in different generations of computers. [2+8]
2. Define logical gate. Describe AND Gate, NOR Gate and XNOR Gate. [1+9]
3. What is memory? Explain the importance of various types of primary memories. [2+8]

Group B

Attempt **all** questions: [5×9=45]

4. Define data, instruction and information with respective examples.
5. Explain the contribution of Dr. Herman Hollerith in the history of computer.
6. What is super computer? Explain the major features and applications of supercomputer.
7. Differentiate between analog computer and digital computer.
8. What is octal number system? Convert (235.75)₈ into hexadecimal number system.
9. What is 1's complement? Subtract 1111 from 1001 using 1's Complement.
10. State and prove the De Morgan's law of Boolean algebra.
11. What is MS Windows? Explain the major features of MS Windows.
12. Write notes on:
 - MS DOS
 - Mark I

Good Luck