



Firs Term Exam - 2070

Subject: Computer Science

FM: 75

PM: 30

Set A

Group A

Attempt all questions:

[3×10=30]

1. What do you mean by the generation of computer? Discuss the major characteristics of different generations of computers. [3+5]
2. Explain the importance of Boolean algebra in digital electronic and also state and prove distributive laws of Boolean algebra. [5+5]
3. What is memory? Classify and explain the various types of memories used in computer system. [2+8]

Group B

Attempt all questions:

[5×9=45]

4. Define hardware, software and firmware with respective examples.
5. Explain the contribution of Dr. Herman Hollerith in the field of history of computer.
6. Differentiate between Digital computer and Analog Computer.
7. What is NAND gate? Why is it called universal gate? Explain with diagrams.
8. Solve the problems:
 - Convert $(440.45)_{10}$ into octal number system
 - Subtract 9344 and 1598 using 9's Complement
9. What is CPU? Explain the major functions of CPU.
10. What is input device? Explain the working principles of digitizer tablet.
11. What is MS Windows? Explain the merits and demerits of MS Windows.
12. Write short notes:
 - EDVAC
 - USB Port



Firs Term Exam - 2070

Subject: Computer Science

Grade: XI

Time: 3:00 hrs

Set B

Group A

Attempt all questions:

[3×10=30]

1. What is computer system? Explain the major seven applications of computers in our life. [3+7]
2. State Laws of Boolean Algebra and also state and prove De Morgan's law of Boolean algebra. [5+5]
3. Distinguish the terms: computer architecture and computer organization. Explain the logical block diagram of computer system with diagram [2+8]

Group B

Attempt all questions:

[5×9=45]

4. Define data, instruction and information with respective example. Also distinguish the terms softcopy and hardcopy information.
5. Explain the contribution of Charles Babbage in the field of history of computer.
6. Differentiate between IBM computer and Apple Computer.
7. What is NOR gate? Why is it called universal gate? Explain with diagrams.
8. Solve the problems:
 - Convert $(984.4A)_{16}$ into decimal number system
 - Subtract 11010 and 10010 using 1's Complement
9. What is bus system? Explain three types of buses used in computer system.
10. What is output device? Differentiate between impact and non impact printers.
11. What is MS DOS? Explain the merits and demerits of MS DOS.
12. Write short notes:
 - EDSAC
 - SCSI