GLOBAL COLLEGE OF MANAGEMENT

Second Term Exam-2072

Grade: XI **Subject: Computer Science** **F.M.:75**
Time: 3:00 hrs. **P.M.:30**

SET A

Group A

Attempt **all** questions **[10×3=30]**

1. What is the importance operating system? Explain any five major functions of OS. [5+5]
2. What is Boolean Algebra? State the laws and also verify commutative laws and distribute laws. [4+6]
3. Classify various types of memories used in computer system also discuss the importance of primary and secondary memories. [3+4+4]

Group B

Attempt **all** questions **[5×9=45]**

4. Write down the contributions of William Oughterd and Howard Aiken in the history of computer. [5]
5. Differentiate between analog computer and digital computer. [5]
6. Solve the following problems: [2.5+2.5]
   - Convert $(8016.55)_{10}$ into base 8
   - Subtract $(1087)_{10}$ and $(3026)_{10}$ using 9's complement
7. Explain the properties of NOR Gate. [5]
8. What is Bus system? Explain the various types of Buses used in computer system. [2+3]
9. Differentiate between multiprogramming OS and multiprocessing OS. [5]
10. Define: spreadsheet, workbook and worksheet and also explain types of cell address. [3+2]
11. What is Internet? Explain the uses and misuses of Internet. [2+3]
12. Write short notes: [2.5+2.5]
    - OCR
    - System Tools of MS Windows

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SET B

Group A

Attempt **all** questions **[10×3=30]**

1. Define operating system. Discuss the various types of operating systems. [2+8]
2. What are universal gates? Explain the properties of universal gates with respective diagrams. [2+8]
3. What is output unit? Explain basic working principle of dot matrix, inkjet and laser printers with respective merits and demerits. [2+8]

Group B

Attempt **all** questions **[5×9=45]**

4. Write down the contributions of G.V. Leibniz and Maurice Wilkes in the history of computer. [5]
5. Differentiate between IBM computer and Apple computer. [5]
6. Solve the following problems: [2.5+2.5]
   - Convert $(4816.45)_{10}$ into base 16
   - Subtract $(4046)_{10}$ and $(9024)_{10}$ using 10's complement
7. Explain the properties of XNOR Gate. [5]
8. What is cache memory? Explain the importance cache memory in computer system. [2+3]
9. Differentiate between real time processing and online processing. [5]
10. What is presentation software? Explain the use of slide layout, animation and slide transition. [2+3]
11. What is Protocol? Write the function of Protocols: TCP, UDP, IP and HTTP [1+4]
12. Write short notes: [2.5+2.5]
    - OMR
    - System Files of MS DOS