



Second Term Exam - 2071

Grade: XI
Time: 3 hrs.

Subject: Computer Science

F.M.:75
P.M.:30

Set A

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Group A

- Attempt **all** questions: [3×10=30]
1. What is operating system? Explain various types of operating systems. [2+8]
 2. Explain and classify various types of computer's memories. [2+8]
 3. a. Differentiate between System Software and Application Software. [5]
b. Write the function of header, footer and gutter in word processor. Also write the major features of word processor. [3+2]

Group B

- Attempt **all** questions: [5×9=45]
4. Differentiate between third generation and fourth generation of computers. [5]
 5. Differentiate between analog computer and digital computer. [5]
 6. Solve the followings: [2.5+2.5]
 - Convert $(240.857)_{16}$ into base 8
 - Subtract $(1101)_2$ from $(11101)_2$ using 1's complement
 7. Explain NOR and NAND gates with logical symbol, truth table and Venn diagram.
 8. State and verify De Morgan's Law. [5]
 9. What is bus system? Explain different types of bus in computer system. [5]
 10. What is input unit? Explain the basic working principles of digitizer tablet. [2+3]
 11. What is internet? Explain the merits and demerits of internet. [2+3]
 12. Write short notes (**Any Two**): [2.5+2.5]
 - WWW
 - ABC
 - USB



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Set B

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Group A

- Attempt **all** questions: [3×10=30]
1. Differentiate between impact printers and non impact printers. And also explain various types of printers with merits and demerits. [3+7]
 2. What is virtual memory? How does it differ from main memory and secondary memory? [5+5]
 3. a. What is computer virus? Explain various types of computer virus. [5]
b. Define the terms: Spreadsheet, Workbook and Worksheet [5]

Group B

- Attempt **all** questions: [5×9=45]
4. Differentiate between first generation and second generation of computers. [5]
 5. Differentiate between IBM computers and Apple Computers. [5]
 6. Solve the followings: [2.5+2.5]
 - Convert $(304.579)_8$ into base 16
 - Subtract $(1101)_2$ from $(10101)_{10}$ using 2's complement
 7. Explain XOR gate and XNOR with logical symbol, truth table and Venn diagram. [5]
 8. State and verify distributive Law. [5]
 9. What is cache memory? Explain. [5]
 10. What is output unit? Explain the working principle of laser printer. [2+3]
 11. What is protocol? List any five communication protocol. [2+3]
 12. Write short notes (**Any Two**): [2.5+2.5]
 - E-mail
 - EDSAC
 - Keyboard