



Pre-Board Exam-2071

Subject: Computer Science

F.M.:75

P.M.:30

Set A

Group A

Grade: XI
Time: 3:00 hrs.

Attempt any **three** questions

[3×10=30]

1. What is operating system? Explain any four functions of operating systems. [2+8]
2. Define program, programming and programming language. Describe various types of programming languages. [3+7]
3. Draw a well-labeled diagram of typical architecture of a computer system and explain the major functions of each component. [4+6]
4. a. Explain the functions of web server and DNS. [5]
b. Define function and syntax of <A> tag and tags with examples. [5]

Group B

Attempt any **nine** questions

[9×5=45]

5. What do you mean by the generations of computer? Explain various technologies used in different generations of computers. [1+4]
6. Differentiate between digital computer and analog computer. [5]
7. What is booting? Describe two types of computer booting in DOS. [5]
8. Write short notes: [2.5+2.5]
 - Touch pad
 - Light pen
9. What is bus system? Explain different types of buses in computer system. [2+3]

10. Solve the followings: [2.5+2.5]
 - Convert $(576.52)_{10}$ into base 8
 - Subtract $(1110)_2$ and $(1011)_2$ using 1's complement
11. What is logical gate? Explain NOR gate with logical symbol, t-table and Venn diagram. [1+4]
12. What is flowchart? Write flowchart and algorithm to find smallest among three numbers. [2+3]
13. What do you mean by spreadsheet? Discuss the different features about spreadsheet. [2+3]
14. Differentiate between primary memory and secondary memory. [5]



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Set B

Group A

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[3×10=30]

1. What is logic gate? Explain OR, AND, NAND and XOR gates with truth table, symbol and Venn diagram. **[2+8]**
2. What is output unit? Describe various categories of printers with respective merits and demerits. **[2+8]**
3. What is virtual memory? Explain how it differs from primary memory and secondary memory. **[4+6]**
4.
 - a. What is cell addressing and explain different types of cell addressing used in Spreadsheet. **[2+3]**
 - b. What is tag in html? Write the functions of <p> and <sub> tags with example. **[2+3]**

Group B

Attempt any **nine** questions

[9×5=45]

5. Distinguish between IBM computer and Apple Macintosh computer. **[5]**
6. State and prove De Morgan's Laws. **[5]**
7. Solve the following **[2.5+2.5]**
 - Convert $(99.85)_{10}$ into binary system
 - Subtract $1001-1100$ using 2's Complement
8. What is cache in computer system? Explain the uses of cache in computer. **[2+3]**
9. Write short notes: **[2.5+2.5]**
 - Email
 - ENIAC
10. Differentiate between CRT monitor and LCD Monitor. **[3+2]**

11. What is algorithm? Write algorithm and flowchart to calculate factorial of given number. **[2.5+2.5]**
12. Differentiate between SRAM and DRAM **[5]**
13. Differentiate between multiprogramming OS and multiprocessing OS. **[5]**
14. What is word processor? Write the functions of thesaurus and mail merge. **[2+3]**