



Pre Board Exam - 2070
Subject: Computer Science

Grade: XI
Time: 3 hrs.

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 **any three** questions: [3×10=30]

1. What is memory? Discuss various types of memories used in computer. [2+8]
2. a. Explain the working principle of scanner. [5]
b. Differentiate between compiler and interpreter. [5]
3. a. Explain the functions of web server and DNS. [5]
b. Define function and syntax of <A> tag and tag. [5]
4. Write algorithm and flowchart to calculate factorial of given number. [5+5]

Group B

Attempt **all** questions: [5×9=45]

5. What is mobile computing? Explain the merits and demerits of mobile computing. [5]
6. What is logic gate? Differentiate between NAND and NOR gate. [5]
7. Solve the followings: [2.5+2.5]
 - Convert (40808)₁₀ into base 8
 - Subtract 11100 and 11011 using 2's complement
8. Write short notes: USB and CSS [2.5+2.5]
9. What is bus system? Explain the various types of Bus systems. [1+4]
10. Differentiate between online system and real time system. [5]
11. Define syntax and semantics. Why syntax error is easier to find than logical error? [2+3]
12. Explain the importance of flowchart in program designing. [2+3]
13. What is spreadsheet? Explain the various types of cell addressing in spreadsheet. [2+3]
14. "GUI based OS is more popular than CUI based OS." Justify. [5]
15. Write HTML code to display the following table: [5]

Student Information		
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SET B

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Group A

Attempt **any three** questions: [3×10=30]

1. Define operating system. What is its purpose? List its functions. [3+3+4]
2. a. What is CPU? Write the functions of CPU. [3+2]
b. Define the terms: web browser and search engine. [5]
3. a. Define worksheet and workbook. Explain the use of sorting and filtering tools in spreadsheet. [2+3]
b. What is tag in html? Write the functions of <p> and <HR> tags [1+4]
4. Write algorithm and flowchart to print multiplication table of given number. [5+5]

Group B

Attempt **all** questions [5×9=45]

5. Explain the major achievements and expectations made from fifth generation of computers. [5]
6. What is logic Gate? Differentiate between XOR and XNOR gate. [5]
7. Solve the followings: [2.5+2.5]
 - Convert (4056)₈ into base 10
 - Subtract 11010 and 1011 using 1's complement
8. Write short notes: MICR and ASCII' [2.5+2.5]
9. Define backup storage. Explain why hard disk is more reliable than floppy disk. [1+4]
10. Differentiate between multiprogramming OS and multiprocessing OS. [5]
11. Differentiate between high level language and low level language. [5]
12. What is word processor? Write the functions of thesaurus and mail merge. [2+3]
13. What is cache in computer system? Explain the uses of cache in computer. [5]
14. Differentiate between SRAM and DRAM [5]
15. Write HTML code using list to display the following table. [5]
 1. Beautiful Places in Nepal
 - Everest
 - Pokhara
 2. Beautiful Places in India
 - Agra
 - Kasmir