



The Times Secondary School

Dillibazar, Kathmandu

First Terminal Examination – 2080

Grade: - XI

Set A

Full Marks:-50

Stream: Science

Pass Marks:-20

Subject: - Computer Science(4271)

Time : 2 hrs

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

Group A

Multiple Choice Questions (1x9=9)

- A computer which is based on single chip microprocessor is called----
a) Microcomputer b) Super computer
c) Mini computer d) All of above
- 1 kilobyte is equal to _____.
a) 1024 byte b) 1000 byte
c) 1 bit d) All of above
- The major technology used in Second generation of computer is _____.
a) Vacuum tube b) Transistor
c) Integrated circuit d) Microprocessor
- Which one of the following memory is volatile?
a) ROM b) RAM c) Hard disk d) None
- A single machine can perform multiple task is _____.
a) Diligence b) Versatile c) Intelligence d) All of above
- 1's complement of 1001 is _____.
a) 0110 b) 1001 c) 0101 d) 1010
- The octal equivalent of (A0F)₁₆ octal is _____.
a) 5017 b) 5672 c) 5654 d) 7412
- The smallest unit of storage is _____.
a) Bit b) Byte c) Nibble d) All of above
- Which of the following is not a bus type?
a) Address Bus b) Data Bus
c) Memory Bus d) Control Bus

Group B

Short Question Answers (5x5=25)

- Differentiate between RAM and ROM.
- What do you mean by system software and application software.
- What are the application area of computer? Describe any five of them.

OR

- Explain mobile computing with its advantages and disadvantages.
- Convert $(703)_{10}$ to hexadecimal number system and binary number system.
 - Subtract 000110 from 111011 using 1's and 2's complement method

OR

List some characteristics of computer and explain any five of them.

Group C

Long Question Answers (2x8=16)

- What is computer architecture? Explain with block diagram and functions of its different components.
- What are the main feature of 1st, 2nd, 3rd and 4th generation of computer?

OR

Give the truth table and logical symbol of NAND, NOT, NOR, and X-OR gate of Boolean Algebra.

The End



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Group A

Multiple Choice Questions (1x9=9)

1. A computer which is based on single chip microprocessor is called----
 - a) Microcomputer
 - b) Super computer
 - c) Mini computer
 - d) All of above
2. 1 byte is equal to _____.
 - a) 1024 byte
 - b) 1000 byte
 - c) 8 bit
 - d) All of above
3. The major technology used in First generation of computer is _____.
 - a) Vacuum tube
 - b) Transistor
 - c) Integrated circuit
 - d) Microprocessor
4. Which one of the following memory is Non- volatile?
 - a) ROM
 - b) RAM
 - c) Hard disk
 - d) None
5. A single machine can perform multiple task is _____.
 - a) Diligence
 - b) Versatile
 - c) Intelligence
 - d) All of above
6. 1's complement of 0101 is _____.
 - a) 0110
 - b) 1001
 - c) 0101
 - d) 1010
7. The octal equivalent of $(F0A)_{16}$ octal is _____.
 - a) 5017
 - b) 7412
 - c) 5654
 - d) 5454
8. The smallest unit of storage is _____.
 - a) Bit
 - b) Byte
 - c) Nibble
 - d) All of above
9. Which of the following is not a bus type?
 - a) Address Bus
 - b) Data Bus
 - c) Memory Bus
 - d) Control Bus

Group B

Short Question Answers (5x5=25)

10. Differentiate between Impact and Non-impact printer.
11. What are the computer peripherals ? Define it.
12. What are the application area of computer? Describe any five of them.

OR

- Explain mobile computing with its advantages and disadvantages.
13. Convert $(603)_{10}$ to hexadecimal number system and binary number system.
 14. Subtract 00110 from 11011 using 1's and 2's complement method

OR

List some characteristics of computer and explain any five of them.

Group C

Long Question Answers (2x8=16)

15. What is computer architecture? Explain with block diagram and functions of its different components.
16. What is the operating system? Explain functions of an operating system.

OR

Give the truth table and logical symbol of NAND, AND, NOR, and X-NOR gate of Boolean Algebra.

The End