

**B.S.C. CHEMISTRY  
SIXTH SEMESTER  
IT FUNDAMENTALS  
BSC - 607A**  
(USE OMR FOR OBJECTIVE PART)

**SET  
A**

Duration :1.30 hrs.

Full Marks : 35

Time : 15 min.

( Objective )

Marks : 10

*Choose the correct answer from the following:*

**1×10=10**

1. The translator which converts low level language into machine language is called
  - a. Assembler
  - b. ALU
  - c. Compiler
  - d. None
2. IC was used in
  - a. 3<sup>rd</sup> generation of computer
  - b. 2<sup>nd</sup> generation of computer
  - c. 1<sup>st</sup> generation of computer
  - d. 5<sup>th</sup> generation of computer
3. Which of the following is a volatile memory?
  - a. ROM
  - b. Hard-disk
  - c. RAM
  - d. None of these
4. Which of the following is operating system software?
  - a. Windows XP
  - b. WinZip
  - c. MS word
  - d. Antivirus
5. FORTRAN is an example of
  - a. High level language
  - b. Assembly language
  - c. Machine language
  - d. None of these
6. How to erase data in EPROM?
  - a. Using Electrical signal
  - b. Using memory cleaner
  - c. Using Ultra-violet rays
  - d. All of these
7. The 2's compliment of the number 10101101 is
  - a. 01010010
  - b. 11010010
  - c. 01010011
  - d. 11101111
8. Half adder performs binary addition operation on
  - a. 2 bits
  - b. 3 bits
  - c. 4 bits
  - d. All of these
9. An example of output device is
  - a. Keyboard
  - b. Mouse
  - c. CPU
  - d. Printer

- 10 The hexadecimal form of the binary number  $(11111010)_2$  is
- a. AF
  - b. EA
  - c. CD
  - d. FA

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**( Descriptive )**

Time : 1 hrs.15 min.

Marks : 25

*[ Answer question no.1 & any two (2) from the rest ]*

1. What is an operating system? Explain the functions of operating system. 5
  
2. What are the various types of computer memory? Explain briefly. 10
  
3. a. Find the binary equivalent of the decimal number  $(13.25)_{10}$ . 3+3+4  
b. Convert  $(11011.1011)_2$  into decimal. =10  
c. Subtract  $(11)_{10}$  from  $(12)_{10}$  using 2's complement method.
  
4. a. What is Computer Language? Explain briefly. 4+6=10  
b. Discuss the features of generation of computers.
  
5. Write short notes on the followings: 5+5=10
  - a. Half adder.
  - b. Computer software.

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