Q.1 Choose the correct answer & encircle it. (1x10)=10

1. A computer's main function is to:
   a. Convert information into storage  
eg b. Convert data into information  
eg c. Display Data  
eg d. Create Data from information

2. Which of the following is necessary to attain computer literacy?
   a. Awareness of importance of computers  
eg b. Knowledge of the basics of how computer work  
eg c. Ability to interact with a computer  
eg d. All of above

3. Which of the following is true about IC?
   a. Invented in 1961  
eg b. ¼ square inch in size  
eg c. Contains thousands of transistors  
eg d. All

4. The application type that is NOT part of Microsoft’s Office suit is:
   a. Word Processing  
eg b. Spreadsheet  
eg c. Database  
eg d. Visual Studio

5. The number of bytes in a Gigabyte is upto:
   a. One Thousand  
eg b. One million  
eg c. One Billion  
eg d. One Trillion

6. The difference between ROM and RAM is:
   a. ROM is larger  
eg b. ROM is nonvolatile  
eg c. ROM is Read Only  
eg d. Both b & c

7. Which of the following is not a Computer Bus?
   a. Control Bus  
eg b. Address Bus  
eg c. Data Bus  
eg d. Timer Bus

8. Which of the following translates source code to object code as a whole?
   a. Interpreter  
eg b. Compiler  
eg c. Debugger  
eg d. Linker

9. An early programming language used for solving business problems was:
   a. C++  
eg b. FORTRAN  
eg c. Assembly  
eg d. COBOL

10. Which is the name of program that translates assembly source code to machine code?
    a. Converter  
eg b. Translator  
eg c. Assembler  
eg d. Debugger
Q. 2 Write the short answer to any twelve from the following questions: 2x12=24

1. How is hardware different from software?
2. What is Data?
3. What are output devices?
4. What is Data Processing Life Cycle?
5. Which technology was used in third generation of computer?
6. Give some examples of application software.
7. What is central processing unit?
8. What is RAM?
9. What is Cache Memory?
10. What is removable hard disks?
11. What are the characteristic of CD-RW?
14. What is meant by batch processing?
15. What is meant by GUI?
16. What is meant by redirect in Linux?
17. Introduction to vi editor in Linux.
18. Why we use CAT command in Linux?

Section – II
Long Questions
Note: Attempt Any Two Questions. 8x2=16

Q. 2 Write a note on Arithmetic & Logic Unit (ALU).
Q. 3 Write Salient features of Windows as a Graphical Operating System.
Q. 4 What is meant by STDIN, STDOUT, STDERR and REDIRECTION?