

Time : Three Hours

Marks : 80

Instructions for the candidates :

- 1) All questions are **compulsory**.
- 2) Draw suitable diagrams and sketches wherever necessary.
- 3) Assume suitable data if necessary.
- 4) Figures to the right indicate full marks.

1. Answer **any eight** of the following questions in about 25 to 30 words each. 16

- a) What is primary memory?
- b) What is an interpreter?
- c) Define the term, software.
- d) What is an OS?
- e) What is 1K memory?
- f) What is Recycle Bin?
- g) What is data?
- h) Give the explanation for the following two commands :
  - i) Date
  - ii) Time
- i) Explain the term, CUI.
- j) What is the use of Notepad?
- k) Which is the first OS that incorporated GUI?
- l) Who developed the Linux OS?

2. Answer **any four** of the following questions in about 40 to 45 words each. 12

- a) Why is a dot matrix printer known as an impact printer?
- b) List and explain the characteristics of a computer.
- c) What is RAM? What are the characteristics of RAM?
- d) What are the applications of computers in education?
- e) What do you mean by network media?
- f) Convert the following decimals to binary :
  - i)  $(20)_{10} = (?)_2$
  - ii)  $(25)_{10} = (?)_2$

3. Answer **any four** of the following questions in about 40 to 45 words each. 12
- a) Write a short note on CD-ROM.
  - b) What are the applications of Windows Explorer?
  - c) What is protocol? Explain with an example.
  - d) Explain the terms, modulation and demodulation.
  - e) What is ROM? Explain its characteristics.
  - f) What are the advantages and disadvantages of star topology?
4. Answer **any two** of the following questions in about 80 to 90 words each. 12
- a) Draw the block diagram of a computer. Explain the function of each unit.
  - b) Explain the basic elements of Windows with one example.
  - c) Explain in brief, all components of the information system.
5. Answer **any two** of the following questions in about 80 to 90 words each. 12
- a) What is protocol? Explain any two protocols in detail.
  - b) What is e-mail? What are the prerequisites of an e-mail?
  - c) List and explain the functions of OS.
6. Answer **any two** of the following questions in about 100 to 120 words each. 16
- a) What is meant by topology? Explain in brief, the different types of topologies.
  - b) List and explain all Internet protocols in brief.
  - c) Explain the following two terms with two examples each.
    - i) Search engine
    - ii) Browser