

Information Technology

Duration : 2 Hours

Max. Marks: 80

Instructions:

1. Figures to the right indicate maximum marks
2. Start each new question on a fresh page

Q1. Write a short note on (any 4)

(4x4 = 16 MKS)

- a. Role of Information Technology in governance
- b. Low Level Language
- c. Lossless and Lossy compression
- d. USB sticks
- e. Online OS
- f. Any 4 qualities of information

Q2. Write a short note on (any 4)

(4x4 = 16 MKS)

- a. B2B e-commerce
- b. Audio type and video type in multimedia
- c. Internet Commerce
- d. Proprietary and Open Source software
- e. Hi-Definition in multimedia
- f. Copyright Act

Q3. Answer the following questions (any 2)

(6x2 = 12 MKS)

- a. Explain the data processing cycle with a neat diagram
- b. Define the terms
 - i. Information
 - ii. TechnologyAlso explain the components of IT
- c. Explain any 3 types of data backups

Q4. Answer the following questions (any 2)

(6x2 = 12 MKS)

- a. Explain the relationship between hardware and software with a neat labeled diagram
- b. Write notes on the following:
 - a. System software
 - b. Ergonomics
- c. What is an OS? Explain the various functions of an OS

Q5. Answer the following questions (any 2)

(6x2 = 12 MKS)

- a. What is EDI? Explain the steps involved in a simple trade exchange in EDI with the help of a neat diagram
- b. Discuss how multimedia is used in education
- c. Explain the interframe and intraframe video compression techniques. Give an example for each

Q6. Answer the following questions (any 2)

(6x2 = 12 MKS)

- a. State and explain any 6 commandments of computer ethics
- b. Explain the phases involved in a trade cycle. What are the 3 generic trade cycles?
- c. What is meant by mobile commerce? Discuss any 3 m-commerce security issues