

[121]

## SARDAR PATEL UNIVERSITY

External Examination November-2012

M.Sc - Information Technology (IT) 1<sup>st</sup> Semester

PS01CINT01: Introduction to Information Science



Date: Friday, 30-Nov- 2012

Time: 02.30 P.M to 5:30 P.M

Max. Marks: 70

Q-1 Select appropriate answers from given list of choices.

[8]

1. A \_\_\_\_\_ is a set of rules that govern data communications.
  - A. Process.
  - B. Protocol.
  - C. Data.
  - D. Information.
2. A \_\_\_\_\_ is used to provide routine information to managers and decision makers.
  - A. Management Information System.
  - B. Decision Support System.
  - C. Workflow system.
  - D. None.
3. Combination of e-business and mobility evolves \_\_\_\_\_.
  - A. E-Commerce.
  - B. E- Business.
  - C. M-business.
  - D. None.
4. What is organized collection of people, procedures, software, databases and devices used to create, store, share and use the organization's experience and knowledge?
  - A. TPS (Transaction processing system)
  - B. MIS(Management information system)
  - C. DSS(Decision support system )
  - D. KM(Knowledge management)
5. A communication protocol used to secure all sensitive data is
  - A. Digital Certificate
  - B. Electronic wallet
  - C. HTTP
  - D. Secure Socket Layer(SSL)
6. The term \_\_\_\_\_ refers to the structure or format of data, meaning the order in which they are presented.
  - A. Syntax
  - B. Semantics
  - C. Timing
  - D. Standards
7. FTP stands for \_\_\_\_\_.
  - A. File Transfer Pending
  - B. Full Transfer Protocol
  - C. File Transmission Protocol
  - D. File Transfer Protocol
8. The \_\_\_\_\_ OSI layer coordinates the functions required to carry a bit stream over a physical medium.
  - A. Physical layer
  - B. Network layer
  - C. Application layer
  - D. Data Link layer

**Q-2 Briefly discuss following (Any Seven):**

[14]

1. Differentiate Data Vs Information.
2. What are the differences between Half-duplex and Full-duplex transmission modes?
3. What is Data Communication? List the components for it.
4. What are the responsibilities of the Network Layer in OSI model.
5. What is Encryption and Decryption? List down the available methods.
6. What is System? Explain Types of systems.
7. Differentiate between Single-bit error and Burst error with example.
8. What is M-business? Discuss some characteristics of it.
9. Describe smart card and its uses.

**Q-3 A) What is Information? Explain the Characteristics of Valuable Information. [6]**

**B) Define MIS. Also explain Outputs of MIS. [6]**

**OR**

**B) Write a note on Characteristics and capabilities of DSS. [6]**

**Q-4 A) Write a note on E-Commerce Multistage Model. [6]**

**B) Write a note on Electronic Payment System. [6]**

**OR**

**B) Explain Compute Based Information System. (CBIS) [6]**

**Q-5 A) Write a note on OSI Model. Explain major functionalities and responsibilities of any *Three* layers. [6]**

**B) Explain MIME and HTTP protocols. [6]**

**OR**

**B) Write a note on Coaxial Cable. [6]**

**Q-6 A) Explain any *Two* Analog-to-Analog conversion techniques. [6]**

**B) Define Bit rate and Bit length. Differentiate between [6]**

(i) Analog data and Digital data (ii) Analog signal and Digital signal.

**OR**

**B) Write a short note on Fiber-Optics cable. [6]**

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