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# SARDAR PATEL UNIVERSITY
## External Examination April-2015
### M.Sc – Information Technology (IT) 1st Semester
### PS01CINT01: Introduction to Information Science
Tuesday, 21-April- 2015

Time: 10.30 A.M to 1:30 P.M **Max. Marks: 70**

**Q-1** Select appropriate answers from given list of choices. **[8]**

**(i)** An organized collection of people, procedures, software, databases, and devices used to record completed for business related exchanges is known as _____.

    A. Management Information System
    B. Decision Support System
    C. Transaction Processing System
    D. All of the Above

**(ii)** 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

**(iii)** E-Business using wireless devices with Internet access is also known as _____.

    A. Internet business
    B. M-business
    C. Supply chain management
    D. None

**(iv)** _____technology digitally encodes physical attributes of a person's voice, eye, face or hand.
    A. Biometric
    B. Physical
    C. Biotechnology
    D. Biological

**(v)** In _____ transmission, one bit follows another so only one communication channel is needed.
    A. Parallel
    B. Serial
    C. Synchronous
    D. None of these

**(vi)** _____ is a supplementary protocol that allows non-ASCII data to be sent through the E-mail.

    A. SMTP
    B. MIME
    C. FTP
    D. HTTP

**(vii)** In _____ type of error two or more bits in the data unit have changed.
    A. Single-bit
    B. Burst
    C. Run-time
    D. Compile-time

**(viii)** The _____ layer of OSI reference model 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]**

    (i) Differentiate between Data and Information.
    (ii) What is Encryption and Decryption? List down the available method.
    (iii) Difference between E-business and M-business
    (iv) Describe smart card and its uses.
    (v) What are the differences between Half Duplex and Full duplex?
    (vi) Differentiate between Analog signal and Digital signal.
    (vii) Discuss different categories of E-commerce.
    (viii) Discuss: Authentication and Digital Signature
    (ix) Differentiate between efficiency and effectiveness.

**Q-3**   **A)** Explain Computer Based Information System. (CBIS).     **[6]**

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

**OR**

    **B)** What is Encryption? Explain Character Level Encryption method.     **[6]**

**Q-4**   **A)** Explain online banking in detail.     **[6]**

    **B)** What is M-business? Discuss advantages of it.     **[6]**

**OR**

    **B)** Write a note on Data Compression.     **[6]**

**Q-5**   **A)** Explain any two layers of OSI model with its responsibilities.     **[6]**

    **B)** Discuss File Transfer Protocol.     **[6]**

**OR**

    **B)** Discuss Electronic Payment System.     **[6]**

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

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

**OR**

    **B)** Explain Pulse Code Modulation method.     **[6]**

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