

**Mid-Semester Examination --February 2003.**  
**Course Id: 17632 Information Systems and 406030 Information Systems Design**

**Number of Students: 17+15=32**

**Total Marks = 50.**

Answer question numbers 1 & 2 and any two from the rest.

**1. Multiple Choice (10X2 = 20). For each question, write only the choice number in your answer sheet.**

a. Projections and responses to queries are information output characteristics associated with a(n):

- I. DSS                      II. MIS                      III. ESS                      IV. TPS

b. Based on the behavioral definition of an organization, each of the following is a true statement except:

- I. people who work in organizations develop customary ways of working.
- II. people gain attachments to existing relationships.
- III. people make arrangements with subordinates and superiors about how work will be done.
- IV. the primary production factors are capital and labor.

c. A semi-structured decision made at the management level would be:

- I. accounts receivable.                      II. electronic scheduling.  
III. budget preparation.                      IV. product design.

d. Which of the following focuses on specific functions that can be found in many different industries?

- I. branded exchange                      II. local exchange  
III. horizontal exchange                      IV. vertical exchange

e. A person-to-person payment system:

- I. supports electronic payment for online and physical store purchases of goods or services after the purchase has taken place.
- II. sends money using the Web to individuals who are not set up to accept credit card payments.
- III. refers to digital currency that can be used for micropayments.
- IV. provides secure services for credit card payments on the Internet.

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- f. Each of the following is a true statement about network computing except:
- I. if managed properly, both network computers and client/server computing can reduce the total cost of ownership of information technology resources.
  - II. network computers can reduce the total cost of ownership because they are less expensive to purchase than PCs.
  - III. network computers could increase management control over the organization's computing function.
  - IV. centralizing control of computing should improve worker initiative and creativity.
- g. Companies providing software that can be rented by other companies over the Web or a private network best describes:
- I. Internet service providers.    II. access service providers.
  - III. outsourcing companies.    IV. application service providers.
- h. A hybrid object-relational DBMS can be accomplished using:
- I. tools that offer object-oriented access to relational DBMS.
  - II. object-oriented extensions to existing relational DBMS.
  - III. a hybrid object-relational database management system.
  - IV. any of the above.
- i. A set of rules and procedures that govern transmission between the components of a network defines:
- I. transmission architecture.    II. transmission topology.
  - III. protocol.    IV. connectivity.
- j. Which of the following is a private, multipath, data-only, third-party-managed network that multiple organizations use on a subscription basis?
- I. ring network    II. private branch exchange
  - III. value-added network    IV. wide area network

**2. (1+2+3+4 = 10)**

- a. To which project team do you belong (1/2/3)?
- b. What is the name of information system project you are working on in this course?
- c. Name the person who would be responsible for organizing peer reviews in your project.
- d. What is the difference between a Defect and a Non-conformance (NC) in the context of an information system project development?

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**3. (2+6+2 = 10)**

- a. How do enterprise systems change the way an organization works?
- b. What are the benefits and challenges of implementing enterprise systems?
- c. What are industrial networks? Define and describe the two types of industrial networks.

**4. (2+3+5 = 10)**

- a. Why is there a considerable organizational resistance to the introduction of information systems?
- b. What specific managerial roles can information systems support?
- c. Explain with a diagram how different kinds of information systems at the various organization levels support different types of decisions.

**5. (4+2+4 = 10)**

- a. Describe six Internet business models for electronic commerce.
- b. Name and describe with examples the various categories of electronic commerce.
- c. What are the principal electronic payment systems used on the internet?

**6. (3+3+4)**

- a. Describe three issues in managing software assets in an organization.
- b. What are the new database trends that make better use of information in an organization?
- c. Name and describe the telecommunication applications that can support e-commerce and e-business.