

## Class Test I

Course Id: 17632/406030 Information Systems/Information Systems Design

Date: February 4<sup>th</sup>, 2003.

Total Time: 45 minutes

1. Multiple Choice (8X2 = 16). For each question, write only the choice number in your answer sheet.

- a. Each of the following is a true statement except
- I. Knowledge and information work now account for a significant 60 percent of the American gross national product and nearly 55 percent of the labor force.
  - II. New kinds of knowledge- and information-intense organizations have emerged that are devoted entirely to the production, processing, and distribution of information.
  - III. While knowledge-intense and information-intense products require a great deal of knowledge to produce, traditional products do not rely heavily on knowledge and technology.
  - IV. Information systems are needed to optimize the flow of information and knowledge within the organization and to help management maximize the firm's knowledge of resources.
- b. Which of the following best defines a flattened, decentralized flexible arrangement of generalists who rely on nearly instant information to deliver mass-customized products and services uniquely suited to specific markets or customers?
- I. the emergence of a global economy
  - II. the transformation of the business enterprise
  - III. the transformation of industrial economies
  - IV. the lack of competition in the marketplace
- c. Which of the following is not an example of information
- I. an invoice
  - II. a student's name
  - III. a sales analysis report
  - IV. a forecast
- d. The type of system that rests on accepted and fixed definitions of data and procedures for collecting, storing, processing, disseminating, and using these data is called a(n):
- I. informal system.
  - II. formal system.
  - III. network.
  - IV. intranet.
- e. Standard operating procedures are:
- I. the unique ways in which organizations coordinate and organize work activities, information, and knowledge to produce a product or service.
  - II. the particular design that information technology takes in a specific organization to achieve selected goals and functions.
  - III. formal rules for accomplishing tasks that have been developed to cope with expected situations.
  - IV. specialized tasks performed in a business organization, including manufacturing and production, sales and marketing, finance, accounting, and human resources.
- f. Computer hardware, software, data and storage technology, and networks providing a portfolio of shared information technology resources for the organization best describes:
- I. information architecture.
  - II. information technology infrastructure.
  - III. communications technology.
  - IV. interorganizational systems.

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- g. Which of the following is a way that information technology increases organizational flexibility for small companies?
- I. Custom manufacturing systems allow factories to offer customized products in small quantities.
  - II. Massive databases of customer purchasing records can be analyzed so that the company can know its customers' needs and preferences.
  - III. Information can be easily distributed down the ranks of the organization to empower lower level employees and work groups to solve problems.
  - IV. Managers can easily obtain the information they need to manage large numbers of employees in widely scattered locations.
- h. The particular form that information technology takes in an organization to achieve selected goals or functions defines:
- I. information architecture.
  - II. network topology.
  - III. computer platform.
  - IV. network.

**Answers to the following questions should be brief. Figures in parenthesis denote marks.**

**2. (2+8 = 10)**

- a. What is an information system?
- b. Describe four trends in the global business environment that have made information systems very important.

**3. (3+5+6 = 14)**

- a. What are the key management challenges involved in building, operating and maintaining information systems today?
- b. List the six major types of information systems in an organization.
- c. Give three examples of knowledge work systems.

**4. (1+3+1+2+3 = 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. What is your role in the project?
- d. List five other roles in an information system project.
- e. Name the person who would be responsible for organizing peer reviews in your project.

**5. (10)**

Consider an information system project cost of 40 Lakh rupees with an advance of 10 Lakhs. There are three deliverables, SRS, SDD and Code with billable amounts -- 20%, 30%, 50% of the project cost and advance adjustments of 20%, 30%, 50%, respectively. Draw a table of the detailed payment plan showing Billable Amount, Advance Adjustment and Net Payable for each of three deliverables along with the advance payment, as would be put in the contract document.

Hint. There will be four rows and three columns in your table besides the header row/columns.