



UNIVERSITY  
OF  
JOHANNESBURG

**FACULTY OF MANAGEMENT**

**DEPARTMENT OF APPLIED INFORMATION SYSTEMS**

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<b><u>MODULE</u></b>	<b>:</b>	<b>FINANCIAL INFORMATION SYSTEMS</b>
<b><u>CODE</u></b>	<b>:</b>	<b>ISF2-1/FIS22B2</b>
<b><u>DATE</u></b>	<b>:</b>	<b>SUPP 2014</b>
<b><u>DURATION</u></b>	<b>:</b>	<b>2 HOURS</b>
<b><u>TOTAL MARKS</u></b>	<b>:</b>	<b>80</b>

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<b><u>EXAMINER</u></b>	<b>:</b>	<b>SM BVUMA</b>
<b><u>EXTERNAL MODERATOR</u></b>	<b>:</b>	<b>MANDLAKAYISE SJ THABETHE</b>
<b><u>NUMBER OF PAGES</u></b>	<b>:</b>	<b>6</b>

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**INSTRUCTIONS TO CANDIDATES:**

- Read the questions carefully
- Answer all questions
- Number your answers clearly
- Write neatly and legibly
- Structure your answers by using appropriate headings and sub-headings
- The general University of Johannesburg policies, procedures and rules pertaining to written assessments apply to this exam.

**SECTION ONE Multiple choice Question 1 to 5 [1 mark each]**

**[5]**

1. \_\_\_\_ refers to the combination of hardware, software, and services that people use to manage, communicate, and share information.
  - a. Information systems
  - b. Information technology
  - c. Computer systems
  - d. Computer technology
  
2. \_\_\_\_ software controls the flow of data, provides data security, and manages network operations.
  - a. Enterprise
  - b. System
  - c. Application
  - d. Legacy
  
3. Examples of company-wide applications, called \_\_\_\_, include order processing systems, payroll systems, and company communications networks.
  - a. enterprise applications
  - b. network operating systems (NOS)
  - c. operating applications
  - d. legacy systems
  
4. Over 40 years ago, a concept called Moore's Law accurately predicted that computer processing power would double about every \_\_\_\_.
  - a. 2 months
  - b. 12 months
  - c. 24 months
  - d. 48 months
  
5. When planning an information system, a company must consider how a new system will interface with older systems, which are called \_\_\_\_.
  - a. enterprise applications
  - b. network operating systems (NOS)
  - c. operating applications
  - d. legacy systems

**Critical Thinking Questions 2 Marks each.**

Sam is the analyst with the responsibility for assessing the economic feasibility of the new system that his team has been hired to develop for Widgets, Inc.

6. Which of the following is NOT an area in which Sam must estimate costs to determine TCO?
  - a. Licenses
  - b. facility costs

- c. cost of competitors' systems
- d. Equipment

7. Sam's boss has asked for a quick list of the tangible benefits of the new system, because the client has expressed some concerns about the project and she wants to reassure him. Which of the following would NOT be on such a list as developed by Sam?

- a. The new system is more user-friendly, thus increasing employee job satisfaction.
- b. The new scheduling system requires overtime.
- c. The new inventory control feature cuts excess inventory and eliminates production delays.
- d. The new online package tracking feature improves service and decreases the need for clerical staff.

Alicia needs to develop a schedule for a project that her team of software engineers is about to begin. You suggest that she consider one of the graphical planning aids that can help a project manager in the scheduling process, and you give her a description of two of those tools.

8. Which of the following is NOT a true statement about Gantt charts?

- a. It is a horizontal bar chart that represents a series of tasks.
- b. The position of a bar shows the planned start and end of the task, and the length of the bar indicates its duration.
- c. They can show task status in several ways, including the use of a vertical line to represent the current date.
- d. They provide the detailed information that is necessary when managing a complex project.

9. In discussing PERT/CPM charts, you discuss the types of task patterns that can occur in a project schedule. You give an example of two tasks, A and B, that can both begin as soon as task C is finished. Which of the following is NOT a true statement about tasks A and B?

- a. They are predecessor tasks of each other.
- b. They are concurrent tasks.
- c. They each depend on task C.
- d. They are multiple successor tasks of task C.

The analysts at Novel Systems Worldwide are considering the four-model approach to system development for a new client.

10. Which of the following will NOT be developed if they decide to use the four-model approach?

- a. A physical model of the current system.
- b. A logical model of the current system.
- c. A teleological model of the current system.
- d. A physical model of the new system.

11. If they pursue the four-model approach, which of the following is a likely outcome?

- a. Users will be unhappy.
- b. Costs may be high.
- c. It will not be possible to get a clear picture of the current system functions before modifications are made.
- d. Costs may be low.

Jaime, the newest analyst at Novel Systems Worldwide, is responsible for assigning the appropriate UML notations to a given class diagram.

12. In a given diagram, Jaime is marking up a relationship in which a given employee can have no payroll deductions or she can have many deductions. Which of the following notations will Jaime write to mark this relationship?

- a. 0..1
- b. 1
- c. 0..\*
- d. 1..\*

13. Jaime has just written the following UML notation on the class diagram: 0..1. Which of the following relationships corresponds to what he has just noted?

- a. An employee can have no direct reports or many direct reports.
- b. An employee can have no spouse or one spouse.
- c. An office manager manages one and only one office.
- d. One order can include one or many items ordered.

You have started the process of selecting a new system for the firm and you are weighing all of the various issues that need to be considered and the resources you have at your disposal as you make this important decision.

14. As you prepare to winnow the field in your selection of a new system, you want a quick refresher on the difference between RFPs and RFQs. If you need an RFP, Simone will write it, and if you need an RFQ, Marny is responsible for writing that. Which of the following is true?

- a. An RFP that Simone writes is more specific than an RFQ Marny will write.
- b. When Simone is tasked with the job, you already know the specific product or service you want and you need to obtain price quotations or bids.
- c. When Marny is tasked with the job, her output can involve outright purchase or a variety of leasing options.
- d. RFPs and RFQs have very different objectives.

15. You have two candidates for the new system. Which one of the following is NOT a strategy you can pursue for making the final selection from among the two candidates?

- a. For vertical applications, use a demo copy to enter a few sample transactions in both.
- b. Contact existing users to obtain feedback for both of the contenders.
- c. Perform a benchmark test to measure the time each of the two applications needs to perform a number of transactions.
- d. Consult Web sites maintained by consultants and software publishers with product references and links to vendors.

## **SECTION TWO**

2.1 You are an IT Manager in your company and have decided not to Outsource because a commercially available software package is an attractive alternative to you. What are the advantages of purchasing a software package? [10]

2.2 In Chapter 8, you have learned about User Interface which describes how users interact with a computer system including the hardware, software, screens, menus, functions, output and features that affect two way communications between users and the computer. Briefly identify at least six guidelines for creating an interface that is easy to learn and use. [6]

2.3 Systems planning is the first of five phases in the system development life cycle, Explain what is involved during the system planning phase. [6]

## **SECTION THREE**

3.1 You have recently been appointed at company XYZ as a Project Manager, Project managers typically perform four main tasks, Identify them and explain what they are. [8]

3.2 During the final design stage, you make decisions that will have a major impact on the initial costs and TCO for the new system. At this point, you should review all previous cost estimates and ask a series of questions. List at least six of the questions you should ask at this point. [5]

## **SECTION FOUR**

4.1 Discuss cloud computing at length, including its advantages and disadvantages. Be sure to include a definition of all relevant terms in your explanation. [10]

4.2 Discuss the five guidelines for developing an e-commerce site in-house. [10]

**\*\*TOTAL 80\*\***