



### IS211– ENTERPRISE ARCHITECTURE

*Midterm Examination*

October 16-18, 2024

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Full Name: \_\_\_\_\_

Year/Section: \_\_\_\_\_

Score: \_\_\_\_\_

#### General Instructions:

- ✓ No Cheating!
- ✓ Wrong Spelling Wrong!
- ✓ Smart phones and smart watches must be turned off!

#### TEST I: MULTIPLE CHOICE

*Direction: Encircle the letter that corresponds to your best answer. (10pts)*

1. It is a reference enterprise architecture methodology developed in 1999 for the Federal Government of the U.S.
  - a. *Zachman Framework*
  - b. *The Open Group Architecture Framework*
  - c. *The Federal Enterprise Architecture Framework*
  - d. *Department of Defense Architecture Framework*
2. It is a practice encompassing the fundamental aspects of managing a business.
  - a. *IT Governance*
  - b. *Enterprise Architecture*
  - c. *EA Governance*
  - d. *System Architecture*
3. The governance framework to maintain enterprise architecture is comprised of the following components. EXCEPT?
  - a. *Software*
  - b. *Tools*
  - c. *Organizational Structure*
  - d. *Metrics*
4. Which of the following enterprise architecture domains defines the overall goals and objectives of the enterprise?
  - a. *System Architecture*
  - b. *Technology Architecture*
  - c. *Data/Information Architecture*
  - d. *Business Architecture*
5. It provides the infrastructure and platform for the business, system and data architecture.
  - a. *Business Architecture*
  - b. *Technology Architecture*
  - c. *Enterprise Architecture*
  - d. *System Architecture*
6. It provides specific functionality to support the business objectives.
  - a. *Business Architecture*
  - b. *System Architecture*
  - c. *Enterprise Architecture*
  - d. *Data/Information Architecture*
7. It is considered one of the most common framework structures used across business industries today.
  - a. *Zachman Framework*
  - b. *Federal Enterprise Architecture Framework*
  - c. *Department of Defense Architecture Framework*
  - d. *The Open Group Architecture Framework*
8. It is a discipline that helps organizations align their business processes, information systems, technology infrastructure, and personnel with their strategic goals and objectives.
  - a. *Enterprise Architecture*
  - b. *System Architecture*
  - c. *Architecture*
  - d. *Technology Architecture*
9. The following are the elements of EA Governance. EXCEPT?
  - a. *Ethics*
  - b. *Administration*
  - c. *Compliance*
  - d. *Assets*
10. It is fundamental organization of system, embodied in its components, their relationship to each other and the environment and the principles governing its design and evolution.
  - a. *Enterprise*
  - b. *Governance*
  - c. *Architecture*
  - d. *Organization structure*

## TEST II: IDENTIFICATION

Direction: Read the statement carefully and write your answer on the space provided. (10pts)

No.	ANSWER	STATEMENT
11.		It is a system that provides a framework for managing an organization.
12.		It is an approach, a series of processes, a cultural orientation, and a set of owned responsibilities that ensure the integrity and effectiveness of an organization's architecture.
13.		It is a collection of organizations that has a common set of goals.
14.		It determines <u>what</u> the organization does and what it should become in the future which is primarily about protecting a business.
15.		It is a conceptual blueprint that defines the structure and operations of an organization.
16.		The one or a person who is shaping and aligning an organization's business strategy with its information technology capabilities.
17.		It is the process of making effective and efficient use of information technology to empower an organization's goals.
18.		In the 1960s of EA history, he penned multiple manuscripts on business systems planning.
19.		It determines <u>how</u> the organization will reach those goals and aspirations which is more about growing it.
20.		This EA framework was developed in 1987, it described as an enterprise ontology or taxonomy that provides a disciplined approach to managing systems architecture.

## TEST III: TRUE OR FALSE

Direction: Determine if each statement below is true or false. Write T whether the statement is true or F if it is false. (10pts)

No.	T/F	STATEMENT
21.		EA is responsible for using governance knowledge to ensure IT and business alignment.
22.		Without EA governance, an organization is likely to tumble into a web of standardized technology, product purchases or development, and monolithic architectures
23.		Governance determines how the organization will reach those goals and aspirations
24.		The focus of IT governance is directing how information technology services can enable business operations.
25.		Management determines what the organization does and what it should become in the future.
26.		In terms of its nature, EA Governance primarily operational while IT Governance primarily strategic
27.		EA leaders need to work on integrating "Business and IT" instead of aligning "Business and IT".
28.		One of the benefits of Enterprise Architecture is improved decision-making.
29.		Independence is one of the major guiding principles for establishing successful EA governance.
30.		The organization of an EA framework should be structured so that employee skill sets are coordinated and optimized for minimum output and efficiency.

#### **TEST IV: SYNTHESIS**

*Direction: Discuss briefly and write your answers legibly. Elaborate your answer by citing concrete examples. (5pts. each)*

31. *What is enterprise architecture?*

32. *Why must business and information technology be integrated?*

33. *What is the main objective of having an enterprise architecture framework?*

34. *Contrast Governance and Management.*

#### **TEST V: CASE ANALYSIS**

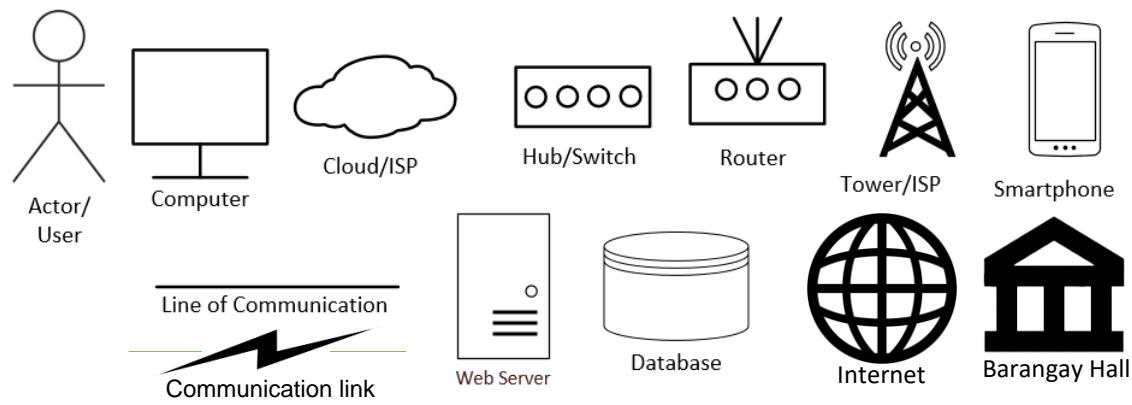
*Thinking Critically:* Read comprehensively the given business information system requirements. Design the following architectures using the following symbols below.

35. System Architecture

36. Data/Information Architecture

37. Technology Architecture

- ✓ Provide a user interfaces for administrator, farmers and citizen.
- ✓ Develop a web-based system that can be accessible to its farmers from six (6) barangays, namely: barangay Kalawag I, Kalawag II, Kalawag III, Tayugo, D'Lotilla, and Kudanding.
- ✓ Manage farmer's account information.
- ✓ Administer agricultural programs, agricultural products and financial reports.
- ✓ Allow farmers to view agricultural programs and financial reports.
- ✓ Enable farmer to register and generate QR code identification.
- ✓ Allow citizen to search registered farmers, and view financial reports online.
- ✓ Notify farmers for incoming agricultural benefits.
- ✓ Provide statistical reports of distribution of program per barangay and most distributed products.
- ✓ Generate reports such as a list of registered farmers per barangay, list of agricultural program and products, and product inventory.



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**Course Number/Description:** IS211 – Enterprise Architecture

**Term:** Midterm

**Semester:** 1<sup>st</sup> Semester

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#### TABLE OF SPECIFICATIONS

Topics/Content/Chapters	Knowledge	Comprehension	Application	Analysis	Synthesis	Evaluation	No. of Item	Score
<b>Introduction to Enterprise Architecture</b>	4(9,10 19,20)	2(26,27)			31		7	11
<b>Enterprise Governance and Other Governance Instruments</b>	6(6,7,8 16,17,18)	3(28,29,30)			32		10	14
<b>Exploring Various Enterprise Architecture Frameworks</b>	10(1,2,3,4,5 11,12,13 14,15)	5(21,22,23 24,25)			33		16	20
<b>Initiating Enterprise Architecture Layers</b>				35 36 37	34		4	55
<b>Total No. of Items</b>	20	10		3	4		37	
<b>Total Score</b>	20	10		50	20			100

#### Summary:

	No. of Points
Test I:	10
Test II:	10
Test III:	10
Test IV:	20
Test V:	50
<b>Total Score</b>	<b>100</b>

Checked by: \_\_\_\_\_

Date: \_\_\_\_\_