



**PAMIBIA UNIVERSITY
OF SCIENCE AND TECHNOLOGY**

FACULTY OF COMPUTING AND INFORMATICS

DEPARTMENT OF INFORMATICS

QUALIFICATION: Bachelor of Informatics Honours (Business Informatics)	
QUALIFICATION CODE: 08BIHB	LEVEL: 8
COURSE CODE: EAT810S	COURSE NAME: Enterprise Architecture
SESSION: JUNE 2024	PAPER: PAPER 1
DURATION: 3 HOURS	MARKS: 70

FIRST OPPORTUNITY EXAMINATION QUESTION PAPER	
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INSTRUCTIONS
<ol style="list-style-type: none">1. Answer ALL the questions.2. Read all the questions carefully before answering.3. Number the answers clearly

PERMISSABLE MATERIALS
<ol style="list-style-type: none">1. Calculator

THIS QUESTION PAPER CONSISTS OF 8 PAGES (Including this front page)

Section A: Multiple Choice

[10 marks]

1. When developing Enterprise architecture to support your company operating model, which model request architects to first identify shared technologies? [1 mark]
 - A. Coordination
 - B. Diversification
 - C. Replication
 - D. Unifications

2. A _____ stores information and provides links to EA tools and other EA program resources. [1 mark]
 - A. Repository
 - B. Framework
 - C. Methodology
 - D. Artifacts

3. Which one best defines what **IT infrastructure** focuses on as decision domain? [1 mark]
 - A. Choosing which initiatives to fund and how much to spend.
 - B. Clarifying the business role of IT
 - C. Determining shared and enabling services
 - D. Defining integration and standardization requirements

4. Companies operating at _____ EA maturity model provides companywide data and process standardization as appropriate for the operating model. [1 mark]
 - A. Business Modularity Architecture
 - B. Optimised core architecture
 - C. Business Silos architecture
 - D. Standardized Technology architecture

5. Which of the following is not true about Enterprise Architecture? [1 mark]
 - A. Organizing logic for business processes and IT Infrastructure reflecting the standardization and integration of a company's operating model
 - B. Is the analysis and documentation of an Enterprise in its current and future states from an integrated Strategy, Business, and Technology perspective
 - C. Enterprise Architecture = Strategy + Business
 - D. Is a Business issue

6. An understanding of organizational culture is important during the process of Enterprise Architecture development because it: [1 mark]
 - A. Helps in understanding the stakeholders to gain their support and manage expectations of the EA program
 - B. Does not reflect the current and the future views of the organization
 - C. Represent the formal system of work roles that reflect how employees and managers interact with each other
 - D. It reflects authority relationships in the organization

7. Business units in a coordination company share one or more of the following except (select the incorrect answer). [1 mark]
- A. Customers
 - B. Suppliers
 - C. Partners
 - D. Employers
8. What is the duality of EA artifacts? [1 mark]
- A. Ambiguity of EA artifacts that allows two different conflicting interpretations simultaneously.
 - B. Ability of EA artifacts to provide information relevant to two different audiences simultaneously.
 - C. Capacity of EA artifacts to contain both planning decisions and documented facts simultaneously.
 - D. Duality is not allowing the use of EA artifacts as a means of communication between different groups of actors
9. Most companies move into the _____ stage by creating a corporate CIO role or by endowing the incumbent CIO with the authority to mandate IT-related behaviours. [1 mark]
- A. Business Silos architecture
 - B. Standardized Technology architecture
 - C. Optimized Core Architecture
 - D. Business Modularity architecture
10. Which of the following is NOT a key component of the business strategy? [1 mark]
- A. Measurement
 - B. Core values of a business
 - C. IT preposition
 - D. Operational tactics

Section B: True and False Questions**[10 marks]**

1. Popular frameworks such as TOGAF, Zachman, and FEAF are universal steps for organizing a successful Enterprise Architecture practice.
2. For many modern companies, the successful execution of any business strategy may be largely equivalent to the successful delivery of corresponding information systems implementing this strategy.
3. A digital environment only creates opportunities for improving existing and developing new products and services but does not pose considerable threats to many organisations.
4. Enterprise Architecture does not have much in common with traditional architecture.
5. One way companies respond to conflicting demands is to adopt different operating models at different organizational levels.
6. Business-supporting Enterprise Architecture domains are virtually unrelated to specific business functionality of IT systems.
7. Artifacts implicit duality is when different parts of Enterprise Architecture artifacts are relevant to different groups of actors.
8. Standardized Technology Architecture is the stage of Enterprise Architecture mature where companies look to maximize individual business unit needs or functional needs.
9. An operating model is a system of governance mechanisms that ensures business and IT projects achieve both local and company-wide objectives.
10. No company can afford to eliminate all its silos.

Section C: Structured Questions [50 marks]

Question 1: Explain what disruptive technologies are. [2 marks]

Question 2: Give two examples of disruptive technologies and discuss HOW each disrupted their markets respectively. [6 marks]

Question 3: Defend the essence of Enterprise Architecture as a communication medium between diverse business and IT stakeholders. [6 marks]

Question 4: Explain HOW the security domain impacts all other EA domains [6 marks]

Question 5: Discuss how enterprise Architecture enables organisations to see themselves in terms of a holistic and integrated view of their strategic direction. [6 marks]

Question 6: Discuss why it is fundamental to understand the distinction between Information Systems and Information Technology. [6 marks]

Question 7: Discuss Enterprise Architecture as an agent of change. [4 marks]

Question 8: Explain why achieving a mutual understanding between business and IT stakeholders in modern organisations becomes imperative. [4marks]

Question 9: Practising enterprise architecture in a disciplined manner can bring numerous benefits to organizations. Discuss three benefits of practising Enterprise Architecture. [6 marks]

Question 10: Discuss the disadvantages for companies in Business Silo Stage:[4 marks]

THE END