

STUDENT ID NO. _____

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UNIVERSITY OF GHANA

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DEPARTMENT OF TEACHER EDUCATION

SCHOOL OF EDUCATION AND LEADERSHIP

COLLEGE OF EDUCATION

END OF YEAR THREE SEMESTER ~~Two~~ EXAMINATION, 2023/2024

B.ED. PROGRAMME

COURSE CODE: TEJS 306

COURSE TITLE: TECHNOLOGY LEADERSHIP AND MANAGEMENT.

Instructions: Answer **all** Questions in Section A and any **three** in Section B

Time: 2 hours

MARKING SCHEME

SECTION A

[25 Marks]

Answer **all** Questions in this section

1. Which of the following is a project management methodology?
 - A) Agile
 - B) Binary
 - C) Triangular
 - D) Linear
2. Which aspect is most important in effective leadership?
 - A) Rigid control over employees
 - B) Building trust and inspiring others
 - C) Maintaining a strict hierarchy
 - D) Avoiding employee feedback
3. What is not a critical component in IT project planning?
 - A) Budget estimation
 - B) Defining scope
 - C) Selecting a vacation policy
 - D) Setting deadlines
4. Which of the following is a project estimation method?
 - A) Analog
 - B) Non-Algorithmic
 - C) 3-Point
 - D) Algorithm
5. Someone who makes something happen either in the technology or aided by the technology is known as
 - A) Information technology
 - B) HRM
 - C) Technological leader
 - D) Technological leadership
6. is the process of evaluating the value of technology for a specific set of uses.
 - A) Technology assessment
 - B) Technology evaluation
 - C) Technology forecast
 - D) Technology transfer
7. What is a key aspect of technology leadership?
 - A) Focusing exclusively on short-term goals
 - B) Emphasizing rigid top-down management
 - C) Encouraging innovation and adaptation
 - D) Avoiding any form of risk-taking
8. The following are key components of the procurement of information technology equipment in an organisation except
 - A) Place
 - B) People
 - C) Process
 - D) Paperwork

9. What does the technology life cycle refer to in technology management?
 - A) The entire lifespan of a technology product
 - B) The stages of technology development, adoption, and eventual obsolescence
 - C) The time it takes to manufacture a technology product
 - D) The annual budget allocated for technology expenses
10. What is the primary goal of technology management in an organization?
 - A) Reducing employee turnover
 - B) Maximizing short-term profits
 - C) Aligning technology with business objectives
 - D) Minimizing customer complaints
11. The following are types of recruitment except
 - A) Resignation Recruitment
 - B) Internal Recruitment
 - C) Staffing Recruiters
 - D) Reverse recruitment
12. Which of the following best defines technology leadership?
 - A) A solitary approach to decision-making
 - B) Guiding an organization's technology strategies and innovations
 - C) Maintaining the status quo and resisting change
 - D) Focusing solely on cost reduction
13. All the following are part of the strategic planning process except
 - A) Determine your strategic position
 - B) Develop a plan
 - C) Job Analysis
 - D) Prioritize your objectives
14. The following are things to consider when starting an IT Project
 - A) Who will execute the project
 - B) The purpose of the project
 - C) Levels of requirements
 - D) The type of project
15. Which of the following is NOT a key aspect of effective technology management?
 - A) Innovation and technology adoption
 - B) Cost reduction and efficiency
 - C) Vendor management
 - D) Employee morale
16. Which emerging ICT business model involves the sharing of resources and services over a network, often using a peer-to-peer architecture?
 - A) Blockchain
 - B) Cloud Computing
 - C) Crowdsourcing
 - D) Decentralized Finance (DeFi)

17. Which of the following represents the stages in New Product Development (NPD)
- A) Idea Generation – Screening – Product Development – Rollout – Concept Development
 - B) Concept Development – Product Development – Rollout – Idea Generation – Screening
 - C) Idea Generation – Screening – Concept Development – Product Development – Rollout
 - D) Idea Generation – Screening – Product Development – Concept Development – Rollout
18. What role does vision play in technology leadership?
- A) Vision is irrelevant in technology leadership.
 - B) Vision helps inspire and guide technological initiatives.
 - C) Vision limits the potential for technology innovation.
 - D) Vision is solely the responsibility of the IT department.
19. In technology management, what is the purpose of a technology audit?
- A) To evaluate the physical security of the organization's technology assets
 - B) To assess the financial performance of the organization's IT department
 - C) To identify and assess the organization's technology resources and needs
 - D) To analyze the organization's technology patents and intellectual property
20. The following are ways in which technology impacts directly business
- A) Cloud Computing
 - B) Mobile and Ubiquitous Computing
 - C) Planning
 - D) Globalization
21. The comprehensiveness of an estimated IT cost means. The cost must ...
- A) Include cost for the entire lifecycle
 - B) Rely on a detailed document
 - C) Not be biased
 - D) Be credible
22. The process of designing to help employees set and achieve goals, receive feedback on their performance, and continuously improve their skills and capabilities is known as
- A) Performance Appraisal
 - B) Performance Evaluation
 - C) Promotion Exercise
 - D) None of the above
23. What is the main objective of technology portfolio management?
- A) To maximize profits from technology licensing
 - B) To maintain a collection of antique technology artifacts
 - C) To optimize the organization's technology investments and resources
 - D) To provide technology training to employees
24. The integrated planning, design, optimization, operation and control of technological products, processes and services could be described as
- A) Technology assessment
 - B) Technology evaluation
 - C) Technology management
 - D) Technology leadership

25. The responsibilities of a technology manager are
- A) Install new software and systems for employees.
 - B) Monitor the functionality and efficiency of the systems.
 - C) Plan and managing the IT budget.
 - D) All the above

SECTION B

Answer only **three** questions in this section

1. Explain 5 Key Functions of an IT Leader in an Organization [25 marks]
2. State and explain Five (5) IT strategies. [25 marks]
3. Explain 5 ways in which Technology Directly Impacts Business Growth. [25 marks]
4. A) Explain the 3 components of Job Analysis [15 marks]
B) Explain the 2 main IT project estimation methods [10 marks]
5. Explain the differences between procurement and recruitment [10 marks]
B) Explain the 3 main types of service level agreement [15 marks]