

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]