

KATHMANDU UNIVERSITY
End Semester Examination
January 2025

Marks Scored:

Level : B.E.

Year : IV

Exam Roll No. :

Time: 30 mins.

Registration No.:

Course : GEOM 401

Semester : I

F. M. : 10

Date : 19 JAN 2025

SECTION "A"

[20Q. × 0.5 = 10 marks]

Choose the most appropriate answer from the given alternatives and **encircle**.

1. What are the typical phases of a project life cycle?
 - a. Initiation, Planning, Execution, Closure
 - b. Planning, Design, Construction, Maintenance
 - c. Concept, Development, Delivery, Review
 - d. Design, Implementation, Testing, Launch
2. Three of the core managerial competencies consist of
 - a. Communication, Multicultural, and Production
 - b. Planning and Administration, Production, and Human Resources
 - c. Teamwork, Self-Management, and Strategic Action
 - d. Multicultural, Communication, and Global Awareness
3. What is the primary purpose of the project planning process?
 - a. To execute the project as quickly as possible
 - b. To define project objectives and develop a roadmap to achieve them
 - c. To assess risks without considering resources
 - d. To finalize project deliverables
4. What does the term "controlling" refer to in project management?
 - a. Implementing changes to project scope
 - b. Ensuring project performance aligns with the plan through monitoring and adjustments
 - c. Closing out the project after completion
 - d. Delegating tasks to team members
5. The manager
 - a. challenges the status quo
 - b. does the right things
 - c. accepts the status quo
 - d. keeps an eye on the horizon
6. As one of the rules for communication, A. B. C. stands for
 - a. Always-Be-Cool
 - b. Activity-Based-Costing
 - c. Always-Be-Careful
 - d. Accuracy-Brevity-Clarity
7. The optimistic time, the most likely time and the pessimistic time of activity are 5, 10, and 21 days. What is the expected time?
 - a. 12
 - b. 11
 - c. 13
 - d. 10

8. What is the primary purpose of using PERT in project scheduling?
 - a. To identify resource allocation
 - b. To estimate project duration based on probabilistic time estimates
 - c. To create a visual representation of project phases
 - d. To monitor project costs represents
9. What is project risk analysis primarily concerned with?
 - a. Identifying and assessing potential risks that could affect project outcomes
 - b. Ensuring project completion on time
 - c. Estimating project costs
 - d. Developing marketing strategies Communication competency refers to
10. What does the critical path represent in the Critical Path Method (CPM)?
 - a. The longest path through the project, which determines the shortest project duration
 - b. The path with the least resources required
 - c. The most expensive tasks in the project
 - d. The path with the least amount of risk.
11. What is the purpose of the tendering process in project management?
 - a. To hire project team members
 - b. To invite suppliers or contractors to submit proposals for project work
 - c. To evaluate project risks
 - d. To monitor project progress
12. Four pillars of safety management systems consist of
 - a. Policy, Leadership, Balanced Decision, and Safety Culture
 - b. Risk management, Documentation, Traceability, and Reviewing Process
 - c. Assurance, Promotion, Policy, and Risk management
 - d. Promotion, Commitment to Resources, People Management, and Willingness to Share Expertise
13. David I. Cleland defines project monitoring as
 - a. "means to keep track of and to evaluate systematically all project activities."
 - b. "means to keep track of and to check systematically all project activities."
 - c. "means to evaluate and to check systematically all project activities."
 - d. "means to report and to record systematically all project activities."
14. Occupational health and safety programs should primarily focus on:
 - a. Reducing project timelines
 - b. Ensuring worker well-being and reducing accidents
 - c. Increasing profits for the employer
 - d. Promoting technology over training
15. One of the external types of stressors is the physical environment which consists of
 - a. Noise, rules, lost job, and caffeine
 - b. Bright lights, regulations, promotion, and lack of sleep
 - c. Heat, deadlines, marital status change, and overloaded schedule
 - d. Confined spaces, heat, bright lights, and noise

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16. Crashing is
 - a. Abandoning the project
 - b. Completing the project with all possible haste
 - c. Reduction of the duration for a few of the activities
 - d. Reducing the cost of the project with all needful modifications

17. What is the typical maximum percentage of a contract that can be subcontracted in many industries?
 - a. 5%
 - b. 10%
 - c. 15%
 - d. 25%

18. Risk is usually _____ as the project progresses.
 - a. Increased
 - b. Reduced
 - c. Remained same
 - d. Become negligible

19. Which of the following procurement methods is used when the procurement amount is up to twenty Lakhs?
 - a. Sealed quotation
 - b. National competitive bidding
 - c. International Competitive bidding
 - d. Direct purchase

20. What is the primary responsibility of site management?
 - a. Implement Safety rule
 - b. Training for site persons
 - c. Conduct field quality audit
 - d. Establishment of work permit system

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Level : B.E.
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F. M. : 40

SECTION "B"

[4Q. × 4 = 16 marks]

Attempt *ANY FOUR* questions. Answers should be clear and to the point.

1. Differentiate between management and administration. Explain the roles and skills of a survey project manager.
2. Explain the SWOT analysis for formulating strategies with an example.
3. Explain the causes of a project's failure. Describe the broad dimensions of human personality in survey management.
4. What is the project appraisal? Discuss its objectives, scope, and significance.
5. Differentiate between
 - a. Bar chart and milestone chart
 - b. Conflict reduction and conflict stimulation

SECTION "C"

[4Q. × 6 = 24 marks]

Attempt *ALL* questions. Answers should be clear and to the point.

6. What are the essential characteristics of a survey project? Explain organizational structure in a survey project. Explain briefly the project life cycle.
7. Explain the stress-performance curve. Explain the sources and types of stress in survey management.
8. Explain the CPM and PERT method with appropriate illustrations. The following is the information on network analysis. How long will it take to complete this project? Indicate the appropriate network diagram.

Activity	Immediate predecessors	Completion Time (Weeks)
A	-	2
B	A	3
C	A	3
D	C	4
E	D	8
F	B,E	6
G	F	2
Total		28 weeks

P.T.O.

9. Write Short notes on (*ANY THREE*)
- a. SMART Goals
 - b. Mind maps of Human Resource Management (HRM)
 - c. Types of project evaluation
 - d. International Competitive Bidding(ICB)