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NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA

(An Autonomous Institute Affiliated to AKTU, Lucknow)

B.Tech

SEM: VII - THEORY EXAMINATION (2024 - 2025)

Subject: Project Management

Time: 3 Hours

Max. Marks: 100

General Instructions:*IMP: Verify that you have received the question paper with the correct course, code, branch etc.**1. This Question paper comprises of three Sections -A, B, & C. It consists of Multiple Choice Questions (MCQ's) & Subjective type questions.**2. Maximum marks for each question are indicated on right -hand side of each question.**3. Illustrate your answers with neat sketches wherever necessary.**4. Assume suitable data if necessary.**5. Preferably, write the answers in sequential order.**6. No sheet should be left blank. Any written material after a blank sheet will not be evaluated/checked.***SECTION-A**

20

1. Attempt all parts:-

1-a. This is prepared using the activity sequence information: (CO1,K1)

1

- (a) Network diagram
- (b) Network cluster
- (c) Network Plan
- (d) Network flow

1-b. This is not a characteristic of a project leader: (CO1, K2)

1

- (a) Empathy
- (b) Integrity
- (c) Competence
- (d) Working alone

1-c. Score application and criterion weights to ran the projects within each category is a part of: (CO2, K3)

1

- (a) Prioritize the projects
- (b) Reduce the criteria set
- (c) Projects held in reserve
- (d) Assembling

1-d. This represents the risk of a project from the point of view of a diversified investor: (CO2, K2)

1

- (a) Systematic risk

- (b) Standalone risk
 - (c) Financial risk
 - (d) Firm risk
- 1-e. The main outcome of risk identification, in a risk management process is to: (CO3, K2) 1
- (a) identify and determine the relative importance of the project risks.
 - (b) identify and describe all risks that might occur on the project.
 - (c) identify and determine the responses to the project risks
 - (d) identify and describe risks that have occurred on previous projects.
- 1-f. Internal sources of finance do not include: (CO3, K1) 1
- (a) Better management of working capital
 - (b) Ordinary shares
 - (c) Trade credit
 - (d) Retained earnings
- 1-g. ___are used to show calendar time task assignments in days, weeks or months. (CO4, K1) 1
- (a) Gantt chart
 - (b) CPM
 - (c) PERT
 - (d) AON
- 1-h. Feasibility study determines ----- (CO4, K2) 1
- (a) Whether the project is possible with resources
 - (b) Comparing the project with world class manufacturing norms
 - (c) Calculate the cost crashing each unit
 - (d) Add duration to each unit
- 1-i. It signifies no deviation and that the task will take same amount of time as per the original plan. (CO5, K2) 1
- (a) If Duration Variance = 0
 - (b) When Duration Variance > 0
 - (c) Duration Variance < 0
 - (d) None of these
- 1-j. It measures the budget for the entire project. (CO5, K1) 1
- (a) Budgeted Cost of Work Scheduled
 - (b) Budgeted Cost of Work Performed
 - (c) Schedule Variance
 - (d) None of these

2. Attempt all parts:-

- 2.a. Discuss the need to have a clear understanding of project deliverables by project 2

	team. (CO1, K4)	
2.b.	Write a short note on effective demand. (CO2, K2)	2
2.c.	Give an example of shadow pricing. (CO3, K3)	2
2.d.	State the difference between project planning and project scheduling. (CO4, K2)	2
2.e.	Highlight the difference between monitoring and control process in project management. (CO5, K4)	2

SECTION-B 30

3. Answer any five of the following:-

3-a.	Discuss the consequences if the project is not completed within stipulated time. (CO1, K4)	6
3-b.	Write a descriptive note on success definitions and their role in successful completion of projects. (CO1, K5)	6
3-c.	Explain the need of project failure modes and effect analysis in project management. (CO2, K2)	6
3-d.	Differentiate between chain ratio method and consumption level method of demand forecasting. (CO2, K4)	6
3.e.	Explain the process of cost estimation and budgeting of a project. (CO3, K3)	6
3.f.	Write an expression/formula to calculate expected time as per PERT planning. Explain the elements of the formula. (CO4, K3)	6
3.g.	Distinguish between project auditing and project monitoring. (CO5, K4)	6

SECTION-C 50

4. Answer any one of the following:-

4-a.	Express your solution to handle cross-cultural issues in your project team as a project leader. (CO1, K5)	10
4-b.	Discuss the bottlenecks in infrastructure projects in India. (CO1, K4)	10

5. Answer any one of the following:-

5-a.	Describe the Experience Curve with its advantages. Draw an illustrative experience curve for a production unit producing chewing gums. (CO2, K3)	10
5-b.	Write a descriptive note on qualitative risk analysis methods. (CO2, K2)	10

6. Answer any one of the following:-

6-a.	Design a budget template for opening a new office in Delhi. (CO3, K3)	10
6-b.	Suppose you want to launch an app for your business. Identify the various costs that you should consider in this process. Explain the steps that you will take with reference to the cost management of the project. (CO3, K3)	10

7. Answer any one of the following:-

7-a.	Discuss which method do we use to shorten the project schedule? Explain the steps involved in this method. (CO4, K3)	10
7-b.	Clarify the role of responsibility assignment matrix (RAM). Draw a matrix and explain in detail. (CO4, K2)	10

8. Answer any one of the following:-

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|------|--|----|
| 8-a. | Explain the role of CPM and PERT in project management. Elaborate the steps involved in PERT planning process. (CO5, K2) | 10 |
| 8-b. | State the difference between planned (PV) and earned value (EV). Explain how PV and EV are used to do variance analysis. (CO5, K2) | 10 |

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