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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. Combination of functional and pure project organizations is known as: (CO1, K1) 1
- (a) Matrix structure
 - (b) Line & Staff structure
 - (c) Divisional structure
 - (d) Complex Structure
- 1-b. Scope of work must have: (CO1, K2) 1
- (a) Time for reviews
 - (b) Visualizations
 - (c) Explicit details
 - (d) All of these
- 1-c. In project portfolio process, the fourth step is said to be: (CO2, K2) 1
- (a) Reduce the criteria set
 - (b) Prioritize the projects
 - (c) Collect project data
 - (d) Assess resource availability
- 1-d. The market forecast shows the market demand that is: (CO2, K3) 1
- (a) Maximum
 - (b) Minimum
 - (c) Expected

- (d) None of these
- 1-e. _____ Integrates financial and non- financial performance measures. 1
(CO3,K1)
- (a) Economic value added
(b) WACC
(c) Balanced Score card
(d) SCBA
- 1-f. A project may be regarded as high risk project when: (CO3, K2) 1
- (a) It has smaller variance of outcome but a high initial investment
(b) It has larger variance of outcome and high initial investment
(c) It has smaller variance of outcome and a low initial investment
(d) It has larger variance of outcome and low initial investment
- 1-g. _____ is a mechanism to communicate what tasks need to get done and 1
which organizational resources will be allocated to complete those tasks in what
timeframe. (CO4, K2)
- (a) Project planning
(b) Project scheduling
(c) Project budget
(d) Project management
- 1-h. In PERT (Project Evaluation and Review Technique) method Expected time (T_e) 1
is____. (CO4,K2)
- (a) $(T_o+T_p+4T_m)/6$
(b) $(T_o+T_p+2T_m)/6$
(c) $(T_o+T_p+T_m)/6$
(d) $(T_m+T_p+4T_o)/6$
- 1-i. The only difference between Gantt chart and tracking Gantt chart is: (CO5, K2) 1
- (a) The format of task bars
(b) Both are same
(c) Layout is same.
(d) None of these
- 1-j. Schedule variance is calculated as____. (CO5, K3) 1
- (a) Earned value-actual value
(b) Planned value-earned value
(c) earned value=planned value
(d) None of these
2. Attempt all parts:-
- 2.a. The project manager must have ability to delegate tasks. Elaborate briefly. 2
(CO1,K2)

2.b.	Explain the financial risk. (CO2,K2)	2
2.c.	State when do we use Gantt chart in project management. (CO3,K2)	2
2.d.	Differentiate between finish to start (FS) and finish to finish(FF) in project scheduling. (CO4, K4)	2
2.e.	Define earned value analysis. (CO5, K2)	2

SECTION-B

30

3. Answer any five of the following:-

3-a.	Describe the benefits of completing the projects as per the predefined schedule. (CO1, K1)	6
3-b.	Explain importance of selecting the projects as per the competency of the organization. (CO1, K2)	6
3-c.	Do you think that all types of risk can be ignored? Differentiate the types of risk in terms of magnitude and impact of the risk on the project. (CO2, K2)	6
3-d.	Discuss the precautions in collecting the secondary data for analysis. (CO2, K3)	6
3.e.	Illustrate the difference between fixed, variable and semi-variable cost in a project. Give proper examples of each cost. (CO3, K2)	6
3.f.	Elucidate the difference between AoA and AoN. (CO4, K4)	6
3.g.	Explain how can negative feedback control system be implemented in project management to anticipate client problems. (CO5, K3)	6

SECTION-C

50

4. Answer any one of the following:-

4-a.	Analyze the significance and usage of Bullet Train project in India. (CO1, K4)	10
4-b.	As a project leader describe your approach to handle a crisis situation in planning mode. (CO1, K3)	10

5. Answer any one of the following:-

5-a.	Create a flow chart of activities for your team to make them clear about your idea to launch a train tourism company. (CO2, K6)	10
5-b.	Illustrate two situations where business continuity plan is needed to be applied. (CO2, K3)	10

6. Answer any one of the following:-

6-a.	Analyze the stepwise process of UNIDO approach. Explain the sources of shadow pricing. (CO3, K4)	10
6-b.	Explain the concept of risk management. Can risk be overlooked at any stage of project life cycle? Support your answer with relevant example. (CO3, K4)	10

7. Answer any one of the following:-

7-a.	Elucidate the difference between CPM and PERT. Explain the steps followed in CPM. (CO4, K4)	10
7-b.	Consider a simple job of maintaining the yard around a home. Draw a work breakdown structure for the same. (CO4,K6)	10

8. Answer any one of the following:-

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|------|---|----|
| 8-a. | Draw and explain the framework of project management information system.
(CO5, K6) | 10 |
| 8-b. | Identify and explain the constraints/components that are monitored and controlled
in project monitoring and control process. (CO5, K4) | 10 |

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