Q. Code: 778652

Reg. No. | | | | | | | | | | | | | |

B.E. / B.TECH. DEGREE EXAMINATIONS, MAY 2024
SE18007 – PROJECT MANAGEMENT

(Common to all branches)

(Regulation 2018/18A)

(Use of Approved Normal distribution table)

TIME: 3 HOURS **MAX. MARKS: 100**

PART- A (10 x 2 = 20 Marks)

(Answer all Questions)

		RBT LEVEL	CO
1.	List the 4 important characteristics of Project.	**2**	**1**
2.	Explain Redundancy in a project with a suitable example in ADM representation.	**2**	**1**
3.	Explain Cycling in Project with a suitable example in ADM representation.	**2**	**2**
4.	Rank the 4 important parameters for control by the Project Manager, giving reasons for the ranking.	**2**	**3**
5.	Briefly explain Beta distribution.	**2**	**4**
6.	Elaborate about simulation in detail.	**2**	**4**
7.	Who are the Chairman and Convener of PCM and SCM?	**2**	**5**
8.	Who prepares, reviews, authorizes and approves PMPR?	**2**	**5**
9.	Discuss about S curves.	**2**	**6**
10.	Briefly explain about Implementation Report.	**2**	**6**

PART- B (4 x 17 = 68 Marks)

		Marks	RBT LEVEL	CO
11.(a)	In a small Project, Activities P and Q have no predecessors. Activity R is preceded by P and Q. S has Q as its predecessor. T is preceded by P and S. Activities R and T are predecessors to U. Duration of Activities P to U are 7,9,11,5,5 and 8 respectively (a) Show the network in AON method (b) Find the project duration and critical path (c) Show the network in AOA method	**(17)**	**3**	**2**
12.(a)	In a project, activities P and Q have no predecessors. P is succeeded by R and S. Q is succeeded by T and U. R is succeeded by V and S is succeeded by W. Activities T, V and W are predecessors to X which is the last of the process. P has a certain duration of 4 days, while other activities have 5 time estimates. Q 4, 13, 22 R 4, 7, 16 S 5, 14, 23 T 3, 6, 15	**(17)**	**3**	**3**

U 8,17,32
V 7, 16, 19
W 4,7,10
X 3,6,9
Determine the expected time and Variance of the Project
What is the probability of completing the project in17 days?
What is the probability of completing the project in 32 days?
What is the probability of completing the project between 24 and 39 days?

13.(a) In a small project Activities P and Q have no predecessors. P is succeeded by R and T. Q is succeeded by S and V. R and S are predecessors to U. **(17) 3 4**

- P has a duration of 4, which can be crashed to 2 at a cost of 6 M per day.
- Q has a duration of 5, which can be crashed to 4 at a cost of 5 M per day
- R has a duration of 4 but cannot be crashed
- S has a duration of 3 and cannot be crashed
- T has a duration of 7 and can be crashed to 6 at a cost of 4 M per day
- U has a duration of 3 and cannot be crashed
- V has a duration of 7 and can be crashed to 4 at a cost of 4 M per day.

By a step by step approach, determine Least cost schedule and Least time schedule with time and costs. Indirect cost of project is 11 M per day.

14.(a) **(17) 3 5**

Activity	Predecessor	Duration	Resource req. per day
P	_	5	7
Q	_	5	5
R	_	3	9
S	Q	3	4
T	Q	3	3
U	Q	3	8
V	S,T	5	6
W	U	7	2

Draw the project Network. If resource availability is 11, find the minimum duration of the Project

PART- C (1 x 12 = 12 Marks)

(Q.No.15 is compulsory)

	Marks	RBT LEVEL	CO
15. There is a project of building a college Hostel block of 3 story's in 12 months. Prepare a comprehensive Monthly Progress Report at the end of 4 the, month	**(12)**	4	6

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