USN [| | | | | | | | |]   **15ME564**

Fifth Semester B.E. Degree Examination, June/July 2018
Project Management

Time: 3 hrs.   Max. Marks: 80

Note: 1. *Answer any FIVE full questions, choosing one full question from each module.*
2. *Use of Normal distribution table/chart is permitted.*

Module-1

1 a. What is Project Management? Write short notes on different types of project roles. **(08 Marks)**
   b. Describe the general project life cycle with sketch. **(08 Marks)**

OR

2 a. What are the objectives of Project Management and discuss the project selection methods? **(08 Marks)**
   b. Explain the step involved in the strategic planning process. **(08 Marks)**

Module-2

3 a. What is Work breakdown structure (WBS)? Explain the different formats of WBS. **(08 Marks)**
   b. Describe various roles in scope planning. **(08 Marks)**

OR

4 a. List and explain in brief PMI developed six work process and explain purpose of project schedule. **(08 Marks)**
   b. Write a short notes on :
      i) Uncertainty in Project schedule   ii) Gantt chart. **(08 Marks)**

Module-3

5 a. What you understand by cost estimation and explain different types of costs? **(08 Marks)**
   b. What is Budgeting? How activity based costing will impact on the project budgeting? **(08 Marks)**

OR

6 a. What is the purpose of Risk management and explain two types of risk analysis? **(08 Marks)**
   b. What you understand by project quality tools and explain Kickoff projects? **(08 Marks)**

Module-4

7 a. Discuss under what circumstances project supply chain management is more effective in managing projects. **(08 Marks)**
   b. Explain different contract types. **(08 Marks)**

OR

8 a. What you mean by closing procurements? Explain how project can be terminated early. **(08 Marks)**
   b. i) What is knowledge management? Explain in brief. **(04 Marks)**
      ii) Briefly explain the project activities of project management. **(04 Marks)**

Module-5

9 a. Explain the numbering method in a network diagram using Fulkerson's I – J role. (04 Marks)

   b. Consider the details of a project as shown in the table : (12 Marks)

Activity	Immediate Predecessor	Duration (Month)
A	-	2
B	-	5
C	-	4
D	B	5
E	A	7
F	A	3
G	B	3
H	C, D	6
I	C, D	2
J	E	5
K	F, G, H	4
L	F, G, H	3
M	I	12
N	J, K	8

   i) Construct the CPM Network.

   ii) Determine the critical path and project completion time.

   iii) Compute the total float.

OR

10 a. Differentiate between PERT and CPM. (04 Marks)

   b. Consider the following table for a project :

Activity	Predecessor	Duration (Weeks)		
		Optimistic time (t_o)	Mostly likely time (t_m)	Pessimistic time (t_p)
A	-	5	6	7
B	-	1	3	5
C	-	1	4	7
D	A	1	2	3
E	B	1	2	9
F	C	1	5	9
G	C	2	2	8
H	E, F	4	4	10
I	D	2	5	8
J	H, G	2	2	8

   i) Construct the Project Network.

   ii) Find the expected duration and variance of each activity.

   iii) Find the critical path.

   iv) What is the probability of completing the project on or before 22 weeks? (12 Marks)

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