2212M049

Roll No. | | | | | | | | | | | | |

Course: MBA, Program: MBA(Business Analytics)
Subject: Project Management, Code: MGM-915
Semester: III

Time: 03 Hours **Max Marks: 70.**

Instructions to the Students:

1. This Question paper consists of two Sections. All sections are compulsory.
2. Section A comprises 10 questions of short answer type. All questions are compulsory. Each question carries 02 marks.
3. Section B comprises 8 long answer type questions out of which students must attempt any 5. Each question carries 10 marks.
4. Do not write anything on the question paper.

Q.No.	SECTION –A (SHORT ANSWER TYPE QUESTIONS)	Marks
1.	a) Differentiate between PERT Model and CPM Model	(2)
	b) Why do we need project management?	(2)
	c) Describe the properties of NPV.	(2)
	d) What do you mean by critical chain project management?	(2)
	e) What are the components of cash flow	(2)
	f) What is social cost benefit analysis?	(2)
	g) Write down the major demands of a project manager	(2)
	h) What is WBS?	(2)
	i) What are international project standards	(2)
	j) What is infrastructure financing?	(2)

SECTION –B (LONG ANSWER TYPE QUESTIONS)

2.	Explain the nature of BCG product matrix & GE stop light matrix as a planning tool.	(10)
3.	What are the various sources of finance available for the projects in India? Describe briefly the various means of financing of project.	(10)

4. Write a short note with appropriate illustration on (10)
   a. GANTT Chart
   b. Detail Project Report

5. **Pertech Computers Limited Pune** (10)
   Pertech computers limited is having a small assembly plant in Pune where they assemble personal computers through nine interlinked activities. The time duration for which is given below:

Activity	A	B	C	D	E	F	G	H	I	J	K
Preceding Activity	-	-	-	A	B	B	C	D	E,G	F	H,I,J
Duration (in hours)	2	2	1	4	8	5	3	1	5	4	3

   Requirements:
   a. Draw network diagram.
   b. Find critical path and project completion time.
   c. Calculate and tabulate for each activity: Earliest start time (EST), Earliest finishing time (EFT), Latest start time (EST) and Latest finishing time (LFT).
   d. Find total float, free float, independent float, interfering float for each activity.

6. The weekly demand for units manufactured by the Acme water Purifier Company has been as follows: (10)
   Week 1 2 3 4 5 6 7 8
   Units 100 80 110 115 105 110 125 120
   Use the exponential smoothing method to forecast the number of units from 2nd week to 9th week. The initial forecast for 1st week was 15 units and α= 0.2.

7. **PVF @ 10% 0.909, 0.826, 0.751, 0.683, 0.621, 0.564, 0.513, 0.467, 0.424, 0.386 (year wise)** (10)

   A. An organization is considering 3 options for a project with the expected cash flows for each option as follows:

Year	Option 1	Option 2	Option 3
0	(5,00,000)	(5,00,000)	(5,00,000)
1	2,50,000	50,000	50,000
2	2,50,000	50,000	2,50,000
3	50,000	2,50,000	2,00,000
4	50,000	1,50,000	3,50,000
5	50,000	5,00,000	50,000

   i. Rank the options based on pay-back period.
   ii. Assuming the organization's cost of capital as 10%, rank the options by NPV method.

   B With a neat diagram explain project phases and milestones

8. Explain the project management process with suitable illustration? Highlight different types of projects? (10)

9. Write short note on: (10)
   a. Cost of Capital
   b. Project Implementations
   c. Project goals
   d. Risk Analysis

===END OF PAPER===