

INDIAN INSTITUTE OF MATERIALS MANAGEMENT

Post Graduate Diploma in Materials Management

Paper-18.A (New) & 17.A (Old)

Project Management

DATE: 21.12.2013 MAX. MARKS: 100 Time: 2.00 p.m. to 5.00 p.m. Duration : 03 hrs.

INSTRUCTIONS:

From Part 'A', answer four questions (Compulsory). Each sub-question carries 01 mark.
From 'B', answer any 3 out of 5 questions. Each question carries 16 marks.
Part 'C', is a case study with sub questions (Compulsory)
Total Marks: 48
Total Marks: 20

- 4. Use of calculator and/or mathematical table is permitted. Graph sheet can be used wherever necessary.
- 5. Please read the instruction on the answer sheet.

PART A

 $(32 \times 1 = 32 \text{ marks})$

Dec 2013

- Q. 1. Select the correct answer from the multiple choices.
 - i) All are elements of Line of Balance except
 - a) Objective chart
- b) Plan of operation

c) Measurement chart

- d) Progress chart
- ii) Which of the following is not a part of project life cycle
- a) Pre-investment phase

b) Investment phase

c) Monitoring phase

d) Termination

- iii) DPR stands for
- a) Planning

b) Measurement

c) Control

- d) Improvement
- iv) The LEAST preferred attribute for a project manager is
- c) Experienced and qualified
- b) A good manager rather than a leader
- d) Good communicator
- d) A good planner and a decision maker
- v) Critical path in a project network is
- a) Path having maximum duration of activities
- b) Path that contains maximum number of activities
- c) Path that consumes largest amount of resources
- d) Path for which the cost estimate is the maximum
- vi) From pricing point of view projects are grouped into all of the following except\
- a) Mega projects

b) Major projects

	c) Com	nbo p	orojects	d) Medium projects						
	vii) Wh	ich (of the following is not identifi	ed with IRR						
	a) Con	side	rs time value of money	b) Based on accounting profit						
	c) Measures efficiency of investmen			d) Measures wealth maximization capability of a project						
	viii) All	are	forms of project organization	n except						
	a) Fun	ction	nal organization	b) Divisional organizationd) Learning organization						
	c) Matr	rix oı	rganization							
Q	.2. Fill in the	bla	nks. (Please do not reprod	luce the statement)						
	a)		e approach anagement.	represents a balanced thinking on organization and						
	b)		_	noney is called						
	c)	-	-	am when the degree of is high						
	d)									
	,			Ç						
	e)	e) Strategic investment decisions are guided by three criteria namely Profitability,, and Growth.								
	f)	Ac	disagreement between two in	ndividuals leads to a in project.						
	g)	A decision making under uncertainty that tries to maximize the minimum payoff is known criterion.								
	h)	Flo	pat in a network is related to							
	Q.3. Pleas	e st	ate True of False							
		a.	Fulkerson rule is associate	ed with cost estimation of projects.						
		b.	Free Float is the difference	between Latest start time and Early start time of an activity.						
		c.	A squared network is draw	n to scale						
		d.	CPM model is activity orien	nted and probabilistic in nature.						
		e.	Budget is prepared when t	he project moves to the execution phase						
		f.	Environmental impact mea	ns the activities, services and products that interact with the						
			environment.							
		g.	Schedule variance is the d	ifference between budgeted cost of work performed and the						
			actual cost of work schedu	led						

h. If cost variance is positive and schedule variance is positive, it means that the project is

within budget and ahead of schedule.

Q.4.	Exp	and	the	fol	low	ing
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- a) EIA
- b) PACE
- c) GERT
- d) PBP
- e) RADR
- f) WDM
- g) CADD
- h) BCTW

PART-B

48 Marks

(Attempt any three. Each question carry 16 marks)

- Q.5. Describe briefly the requirements of a project proposal highlighting the requirements of a bankable project.
- Q.6. Discuss various methods for evaluating project profitability highlighting the advantages and disadvantages of each.
- Q.7. a) Discuss the importance of audit and review in project management
 - b) What is decision tree? How it helps in decision making.
- Q.8. Distinguish between
 - a) PERT & CPM
 - b) Product life cycle and project life cycle
 - c) Project management & production management
 - d) Maximin rule and Minmax rule for decision making.
- Q.9. Write short notes on any four
 - a) Matrix organization
 - b) Resource leveling
 - c) Environment Management System
 - d) Benchmarking
 - e) Gantt charts

1. Q.10. The table below shows a project consisting of 9 activities along with its three time estimates.

Job	1-2	1-6	2-3	2-4	3-5	4-5	6-7	5-8	7-8
a (days)	1	2	2	2	7	5	5	3	8
b (days)	7	5	14	5	10	5	8	3	17
c (days)	13	14	26	8	19	17	29	9	32

a) Draw the project network diagram.

(5 marks)

- b) Find the critical path and the time taken for completing the project. (3 marks)
- c) Calculate early start time, early finish time, latest start time, latest finish time and float for all the activities. (7 marks)
- d) What is the probability of completing the project in 40 days?

(5 marks)
