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RC-4449-50

M.B.A. (Sem. IV) (Evening) Examination

April / May – 2010

Project Management (OP & O-402)

Time : **3** Hours] [Total Marks : **100**

RC-4449

Instructions : (1)

નીચે દર્શાવેલ ☛ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fillup strictly the details of ☛ signs on your answer book.

Name of the Examination :

☛ **M.B.A. (Sem. 4) (Evening)**

Name of the Subject :

☛ **Project Management (OP & O-402)**

☛ Subject Code No. : **4 4 4 9** ☛ Section No. (1, 2,.....) : **1**

Seat No. :

Student's Signature

(2) Answers to the **two** sections to be written in **separate** answer books.

(3) Figures to the **right** indicate marks to the respective question.

(4) Question No. **1** is **compulsory** in Section-**I** and Question No. 8 is **compulsory** in Section-**II**.

(5) Attempt any **two** full questions out of Q. No. **2,3,4** in Section-**I** and any **two** questions out of Q. No. **5,6,7** in Section-**II**.

1 (a) What is meant by work breakdown structure ? Why do you need this in project management ? **6**

(b) With the help of neat sketch, explain S-curve. **6**

(c) What are the advantages and limitations of PERT ? **6**

2 Consider the following data of the project : **16**

Activity	Normal Time (weeks)	Normal Cost (Rs.)	Crash Time (weeks)	Crash Cost (Rs.)
1-2	7	600	4	840
1-3	11	200	9	First day : Rs. 70 Second day : Rs. 80
2-3	10	800	8	1000
2-4	6	500	4	760
2-5	16	100	9	380
3-4	6	200	4	360
3-5	9	500	4	960
4-5	8	300	5	500

If the indirect cost per week is Rs. 300, find the optimum crashed project completion time.

3 Draw network diagram for the following activities : **16**

Activity	A	B	C	D	E	F	G	H	I	J
Dependence	-	A	A	A	D	D	E	F,G	C,H	B
Duration (days)	1	4	2	2	3	3	2	1	3	2

(1) Compute earliest event time and latest event time.

(2) Critical path and total project duration.

(3) Total float and free float for each activity.

4 (a) Explain the following terms in project management : **10**
(any **five**)

(1) Dummy activity

(2) Critical path

(3) Interfering float

(4) Optimistic time

(5) Pessimistic time

(6) Most likely time.

(b) Write a short note on Gantt chart. **6**

RC-4450

Instructions : (1)

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Name of the Examination :

☛ **M.B.A. (Sem. 4) (Evening)**

Name of the Subject :

☛ **Project Management (OP & O-402)**

☛ Subject Code No. : **4 4 5 0** ☛ Section No. (1, 2,.....) : **2**

Seat No. :

Student's Signature

(2) Answers to the **two** sections to be written in **separate** answer books.

(3) Figures to the **right** indicate marks to the respective question.

(4) Question No. **1** is **compulsory** in Section-**I** and Question No. 8 is **compulsory** in Section-**II**.

(5) Attempt any **two** full questions out of Q. No. **2,3,4,5** in Section-**I** and any **two** questions out of Q. No. **7,8,9,10** in Section-**II**.

5 Explain the modern tools and techniques available for project management. **16**

6 How the effectiveness of a team could be improved in project management ? **16**

7 Write a detail note on project life cycle. **16**

8 The following information is given : **18**

Activity	1-2	2-3	2-4	3-5	4-6	5-6	5-7	6-7
Pessimistic time (weeks)	3	9	6	8	8	0	5	8
Most likely time (weeks)	3	6	4	6	6	0	4	5
Optimistic time (weeks)	3	3	2	4	4	0	3	2

Draw the network diagram for the above.

Calculate,

(1) Expected task time and their variance.

(2) The earliest and latest expected times to reach each event.

(3) The critical path.

(4) The probability that the project will be completed in 23 weeks.

Given that :

Z value	1.90	1.91	1.92	1.93	1.94
Probability	0.9713	0.9719	0.9726	0.9732	0.9738