Total No. of printed pages = 5 BA 132401 Roll No. of candidate 2017 MBA 4th Semester End-Term Examination PROJECT MANAGEMENT Full Marks-100 Pass Marks-35 Time-Three hours The figures in the margin indicate full marks for the questions. GROUP - A Answer any six from the following: $5 \times 6 = 30$ With respect to network diagrams, explain ES, EF, LS, LF. What is total float and free 3+2=5 float? (ii) Explain WBS. How is WBS integrated with 2+3=5 the organization? (iii) What are responsibility matrices? How are 3+2=5 they helpful? [Turn over

- (iv) Explain the differences between time constrained projects and resource-constrained projects. What is resource smoothing?
- (v) Explain project direct cost and indirect cost
- (vi) What is mean variance analysis and what me its applications?

 3+2=1
- (vii) What are the different phases in a project life cycle?
- (viii) What are the different indexes to monitor project progress?

GROUP - B

- 2. Answer any four from the following: $10\times4=40$
 - (i) What are the different methods for estimating project time and cost from a Top Down perspective?
 - (ii) What is a project network? List the information and insights a network may provide a manager. 3+7=10

man are creating a customer database for a man league baseball team. Draw a project metwork with the information given below.

Complete the forward and backward pass mediation. Compute the total stack and mentify the critical path and project completion time.

Predecessor	Description	Time (days)
None	System design	2
A	Subsystem A design	1
A	Subsystem B design	1
Α	Subsystem C design	1
В	Program A	2
C	Program B	2
D	Program C	2
E	Subsystem A test	1
F	Subsystem B test	1
G	Subsystem C test	1
Н, І, Ј	Integration	2
K	Integration test	1

- (iv) Describe project control process in detail
- (v) What are different types of resource constraints? Explain the concept of time phased budget of a project. 5+5=10
- (vi) What are the characteristics of a project 7
 Explain the concept of project scope check list. 5+5=10

3. Answer the following questions: 15×2=30

(i) Under what conditions project durations may be reduced? How can a project be accelerated when resources are constrained?

Reduc scape 9+6=15 Corphere quality

(ii) Write short notes on any three:

5+5+5=15

- (a) WBS
- (b) Resource levelling
- (c) Problems in multiproject schedules
- (d) Assumptions in developing a status report.

the following table gives activities in a manuation project and other relevant laternation.

	Immediate predecessor			Direct cos Normal	
	_	4	3	60	90
	_	6	4	150	250
	_	2	1	38	60
D	A	5	3	150	250
	C	2	2	100	100
	A	7	5	115	175
	D, B, E	4	2	100	240

indirect cost data:

Days		:	15	14	13	12	11
Cost	(Rs.)	:	600	500	400	250	175
Days		:	10	9	8	7	6
Cost	(Rs.)	:	100	75	- 50	35	25

- (a) Draw an arrow diagram for the project.
 (Use activity on arrow).
- Determine the project duration that will result minimum total cost. 3+12=15

(5)

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170(B)