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For the PERT problem find the critical path and project duration.

Activity	Predecessor	Time		
		Optimistic	Most likely	Pessimistic
A	-	4	10	28
B	-	2	20	24
C	A	0	0	12
D	A	2	8	14
E	A	6	20	30
F	B,C	6	10	14
G	D,F	2	4	6
H	D,F	10	20	30
I	E,H	6	12	18

(15)

(200)

15/05/18

(Evening)

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 9444

Unique Paper Code : 61018418

Name of the Paper : Quantitative Technique

Name of the Course : B.Voc. (Banking Insurance / Software Development) (GEC-4.3)

Semester : IV

Duration : 3 Hours

Maximum Marks : 75

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt **all** questions.
3. **All** questions carry equal marks.
4. Show your working note clearly.

1. Write a short note on **any three** of the following :

(a) Crashing of activities

(b) Floats of activities

(c) Critical Path

(d) Human aspect of Project management

(5×3=15)

P.T.O.

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2. What is a project idea? How project ideas are generated? How will you decide whether an idea is worth pursuing or it is a raw idea only? Give examples.

OR

- (a) Discuss the factors that affect the plant location.
- (b) What are the various factors to be considered in the technical analysis of project? (15)
3. (a) What is the meaning of risk? What are its different forms? How is it measured?
- (b) State the assumptions of Capital Asset Pricing Model (CAPM). Explain the concept of beta.

OR

- (c) Why capital investment decisions are considered critical?
- (d) Explain the various phases of capital budgeting decisions? (15)
4. "Plant location is an important strategic decision in Project analysis." Explain the factors which affect the choice of a location. Why selection of a good location is crucial for the success of project? Give example.

OR

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A company is considering the replacement of its existing machine which is obsolete and unable to meet the rapidly rising demand for its product. The company is faced with two alternatives (i) to buy machine A which is similar to the existing machine or (ii) to go in for machine B which is more expensive and has much greater capacity. The cash flows at the present level of operations under two alternatives are as follows.

The companies cost of capital is 10%. Calculate NPV, Payback Period and advise the finance manager about proposed investment

PVF at 10% for 10 yrs (.909, .826, .751, .683, .621, .564, .513, .467, .424, .386)

	0	1	2	3	4	5
Machine A	-25	-	5	20	14	14
Machine B	-40	10	14	16	17	15

(15)

5. What is Project management? What are the various phases of project Management?

OR

P.T.O.