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SARDAR PATEL UNIVERSITY

M.com (IV sem.) Examination

2nd April 2019, Tuesday

2:00 P.M to 5:00 P.M.

PB04ECOM27: QUANTITATIVE TECHNIQUES IN MANAGEMENT

MARKS:70

SECTION:1

QUE.1

(a) Explain the significance of PERT to a manager. Also point out the limitations of this technique. (8)

(b) Draw PERT Chart and find Float time for each activity. (9)

Activity	1-2	2-3	2-4	3-5	3-6	4-6	4-7	5-8	6-8	7-8
Days	2	3	5	4	1	6	2	8	7	4

O.R

(a) Explain in reference to PERT & CPM: Network, Dummy activity, Float time (8)

(b) The details regarding a project is as follows. Find the expected times of the activities and draw PERT chart. Also find Critical path and time for it. (9)

Activity	1-2	2-3	2-4	3-4	3-5	4-6
T _o	1	4	1	2	2	2
T _m	3	8	3	4	6	3
T _p	5	10	6	7	8	4

5-8	6-7	6-10	7-9	8-9	9-10
2	6	3	2	3	6
5	8	4	5	5	7
8	10	5	7	8	8

Que.2

(a) Explain in detail ABC Analysis. (9)

(b) Find EOQ and total cost if R=200, C₃= 100, I= 2% given (9)

Quantity	Price per unit(In Rs.)
$1 \leq q_1 < 500$	10
$500 \leq q_2 < 750$	9.25
$750 \leq q_3$	8.75

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(P.T.O)