

SARDAR PATEL UNIVERSITY**M.com (IV SEM.) Examination****Date: 3rd April 2018, Tuesday****Time: 02 P.M. To 5-00 P.M.****PB04ECOM08: QUANTITATIVE TECHNIQUES IN MANAGEMENT****MARKS: 70****SECTION: 1****Que.1**

(a) Define PERT and CPM and explain Event, Dummy Activity and Float time with one illustration. (08)

(b) Represent the following information in form of a network. Find expected time of each activity and obtain the critical path and total time for it also (Time is in days). (10)

Activity	1—2	2—3	2—4	3—5	4—5	4—6
Optimistic time	4	1	8	3	2	3
Most likely time	9	5	10	6	4	7
Pessimistic time	14	18	17	8	5	10

5—7	5—8	7—9	8—9	9—10	6—10
3	4	4	2	4	4
7	8	9	6	11	7
10	9	14	10	18	9

O.R

(a) Give main differences between PERT and CPM (08)

(b) Draw PERT chart and find EST, EFT, LST, LFT and Float time (10)

For the following information.

Activity	1—2	1—3	2—4	3—4	3—5	4—6	5—7	6—7
Time (In days)	2	5	4	3	5	6	2	4

Que.2

(a) Explain meaning of Inventory control and give merits and demerits of Inventory control. (07)

(b) Find EOQ for the following price break model. (10)

Quantity	Unit cost (In Rs.)
$0 \leq q < 500$	10
$500 \leq q$	9