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[A-6]

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SARDAR PATEL UNIVERSITY
BBA SEMESTER VI EXAMINATION 2016
SUBJECT: OPERATIONS MANAGEMENT

SUBJECT CODE: UM06CBBA01

DATE: 29/03/2016

TIME: 10.30 AM TO 12.30 PM

Note: Figures to the right indicate marks

- Q 1(a) Give the meaning of manufacturing, production and operations. Also explain production system 7
(b) Explain scope and importance of operations management 8
OR
Q 1(a) What is operations management? Explain its important functions. 7
(b) Explain importance of transport, supply and service functions in the operations management. 8
Q 2(a) Distinguish between Continuous and Intermittent manufacturing systems. 7
(b) Explain with illustrations (i) Job (ii) Lot (iii) Batch (iv) Mass production 8
OR
Q 2(a) Distinguish: Batch Production form Mass production. 7
(b) Discuss the factors affecting to Plant layout decisions. 8
Q 3(a) Write note on (i) Man Machine chart (ii) Flow process chart. 7
(b) Following information is obtained from time study recording procedure. 8

| Element Number | Average time(minute) | Performance rating (%) | Relaxation Allowances (%) |
|----------------|----------------------|------------------------|---------------------------|
| 1 | 07.75 | 105 | 20 |
| 2 | 19.75 | 100 | 10 |
| 3 | 15.00 | 090 | 12 |
| 4 | 05.00 | 095 | 15 |

Compute:

- (i) Normal time for each element and the job.
(ii) Standard time for each element and the job.
(iii) If 8000 pieces of the items are required to produce per day, then estimate manpower requirements considering 8 hours working time in a day.

OR

- Q 3(a) Write note on (i) Operation process chart (ii) Normal time 7
 (b) Explain in brief: The steps in time study and method study. 8

- Q 4 A business man is interest to set up a unit in Makarpura GIDC Vadodara. 15
 He has identified a few broad level work components. The details of which are given below:

| Activity | Description | Duration (week) | Immediate Predecessors |
|----------|----------------------------------|-----------------|------------------------|
| A | Land and Building | 30 | -- |
| B | Procure machinery | 40 | A |
| C | Procure Instruments | 15 | A |
| D | Arrange electrification | 30 | A |
| E | Erection of machines (stage - 1) | 15 | B,D |
| F | Erection of machines (stage - 2) | 15 | C,E |
| G | Install instruments | 08 | C,E |
| H | Test | 04 | F,G |

- (a) Draw the network diagram.
 (b) Find out critical activities with the help of CPM.
 (c) If the activity A is started on 1-04-2014, then when can the businessman start pilot production?
 (d) How many dummy activities are in the network diagram?

OR

- Q 4 (a) Give meaning, importance and significance of CPM and PERT. 7
 (b) Explain (i) Routing (ii) Scheduling 8
