

[4/A-2]

SEAT No. _____

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SARDAR PATEL UNIVERSITY
BBA SEMESTER VI EXAMINATION 2019
SUBJECT: OPERATIONS MANAGEMENT
SUBJECT CODE: UM06CBBA01

DATE: 26/03/2019, Tuesday

TIME: 10 AM TO 12 NOON

Note: Figures to the right indicate marks

- Q 1(a) Give the meaning of production and operations. Also explain production system 7
(b) Explain objectives 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) An entrepreneur has to attend two machines. The timings of various activities to be carried out on these machines are as under: 8

Activity	Machine- I	Machine-II
Inspection of job	1 min	2 min
Loading of machine & start auto feed	5 min	6 min
Actual machining time & autostop	12 min	12 min
Unloading of machine	3 min	2 min

- (a) Prepare man-machine chart yielding best utilization.
(b) Find out cycle time and percentage utilization of man, machine- I and machine- II.

OR

- Q 3(a) Write note on (i) Operation process chart (ii) Standard time 7
(b) Explain in brief the steps in time study. 8

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

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) Write detailed note on (i) CPM and (ii) PERT. 7
- (b) Explain (i) Routing (ii) Dispatching and (iii) Expediting 8

