

[A4]

**SARDAR PATEL UNIVERSITY**

**BBA (G) SEMESTER VI EXAMINATION APRIL 7, 2015**

**SUBJECT: OPERATIONS MANAGEMENT**

**SUBJECT CODE: UM06CBBA01**

**TIME: 10.30 AM TO 12.30 PM**

- Q. 1 (a) Explain the functions of manufacturing and operations. 8
- (b) Give meaning, scope and importance of operations management 7
- OR**
- (a) Give meaning of operations management and operating system 8
- (b) Explain importance of transport, supply and service functions in the operations management. 7
- Q. 2 (a) Discuss the factors affecting to plant lay-out decisions. 8
- (b) Distinguish batch production from mass production. 7
- OR**
- (a) Distinguish between process lay-out and product lay-out. 8
- (b) Explain the types of plant lay-out that you have studied. 7
- Q. 3 (a) Explain in brief the steps involved in time study and method study 8
- (b) Write note on (i) Flow Process Chart (ii) Man Machine Chart and (iii) String Diagram 7

**OR**

The following table gives the continuous time in minutes for a job. You are required to calculate: 15

- (i) Standard time for each elements
- (ii) standard time for the whole job and
- (iii) Number of employees required to produce 100 units in one shift of 8 hours

Observations	I	II	III
1	2	8	12
2	15	22	26
3	28	34	38
4	41	48	53
5	55	61	66
6	69	76	81
Rating	110%	120%	110%
Allowance	20%	15%	10%

- Q. 4 From the follow information of a project: 15
- (i) Draw PERT diagram
- (ii) Determine critical activities and critical path
- (iii) Compute EST, LST, LFT and Slack

Activity	:	A	B	C	D	E	F	G
Immediate Predecessor :		-	-	B	A,C	B	B,D	E,F
Time( Days)	:	5	6	8	7	4	10	6

OR

- (a) Explain production planning and control. Also give its importance in modern business. 8
- (b) Write note on (i) Routing (ii) Scheduling (iii) Dispatching and (iv) Follow-up 7

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