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Question Paper Code : 85508

M.B.A. DEGREE EXAMINATION, FEBRUARY 2012.

Second Semester

DBA 1651 — PRODUCTION MANAGEMENT

(Regulation 2007/2009)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is meant by Production and Operations Management?
2. Define Computer Integrated Manufacturing.
3. What is meant by JIT?
4. Define ERP.
5. What is meant by Capacity Planning?
6. Define Delphi Technique.
7. What is meant by Total Floats?
8. Define Queuing Analysis.
9. What is meant by CRAFT?
10. Give example for Fixed Position Layout.

PART B — (5 × 16 = 80 marks)

11. (a) Explain the functions of Production and Operation Management.

Or

- (b) Discuss Global trade operations and Supply network applications.
12. (a) Describe the concept and applications of ABC systems.

Or

- (b) Explain the role of Materials and Inventory Management in e-business and e-operations.
13. (a) Describe the steps in Aggregate and Capacity Planning.

Or

- (b) Elaborate the different types of forecasting.
14. (a) Solve the following Job Sequencing problem. Draw Gantt chart. Find the total time elapsed to complete the jobs and idle time for machines :

Job/Machine	1	2	3
1	8	3	8
2	3	4	7
3	7	5	6
4	2	2	9
5	5	1	10
6	1	6	9

Or

- (b) Consider the following data of a project :

Activity	Predecessor (s)	Duration (weeks)		
		<i>a</i>	<i>m</i>	<i>b</i>
A	-	1	2	3
B	-	2	2	8
C	A	6	7	8
D	B	1	2	3
E	A	1	4	7
F	C, D	1	5	9
G	C, D, E	1	2	3
H	F	1	2	9

- (i) Construct the project network.
- (ii) Find the expected duration and critical path.
- (iii) Find the expected project completion time.

15. (a) Describe the factors to be consider for automobile manufacturing plant location.

Or

- (b) Discuss steps in Work Measurement and its application.
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