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Question Paper Code : X 90126

M.B.A. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2020
Second Semester
BA 7201 – OPERATIONS MANAGEMENT
(Regulations 2013)

Time : Three Hours | Maximum : 100 Marks

Answer ALL questions

PART – A **(10×2=20 Marks)**

1. What is operations management ?
2. Define supply chain management.
3. How does a manager select one particular technique of forecasting out of many ?
4. Give the specific features of fixed position layout.
5. What is process design ?
6. Distinguish between method study and motion study.
7. What is the role of purchasing manager in make-or-buy decisions ?
8. What are the problems in implementing JIT in India ?
9. What is line balancing ? Why it is used ?
10. What are the various time estimates used in PERT analysis ?

PART – B **(5×13=65 Marks)**

11. a) Explain the system approach to operations management in detail.

(OR)

b) Name the various subsystems used in a 'Production System'. State the importance of a subsystem.

12. a) Give the frame work of MRP II and explain it.

(OR)

b) Enumerate the various factors determining facility location.

13. a) Discuss the necessity of close interaction between product design and process design.

(OR)

b) The time study engineer of a company was asked to fix the standard time of making a spindle using lathe. The data of the time study are shown in table. The performance rating of the worker is 105 percent. Find the standard time for the spindle by assuming an allowance percentage of 10 per cent.

Cycle Time in Minutes	Frequency
36	1
37	3
38	3
39	2
40	1

14. a) Explain various vendor rating techniques.

(OR)

b) Explain the inventory system.

15. a) Explain the significance of scheduling in the action phase. What are the types of scheduling ?

(OR)

b) Explain the different phases of project management.

PART – C **(1×15=15 Marks)**

16. a) Demonstrate the concept of resource allocation with a suitable example.

(OR)

b) If a product is to be manufactured within the company, the details are as follows ;

r = 24,000 units/year

k = 48,000 units/year

C_0 = Rs. 200 per set-up

Cc = Rs. 20/unit/year

Find EBQ and cycle time.