(i)	Printed Pages	:4]	Roll No
(ii)	Questions	: 14]	Sub. Code : 0 8 3 2
			Exam. Code : 0 0 1 5

Bachelor of Commerce 5th Semester Examination

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PRODUCTION AND OPERATION MANAGEMENT Paper: BCM-504

Time: 3 Hours] [Max. Marks: 80

Note: - (i) Attempt any four questions from Section A.

(ii) Attempt any two questions each from Section B and C.

Section-A

- 1. What do you mean by Safety Stock?
- 2. Write down the steps in production process.
- 3. Describe the relevance of strategic planning in production and operations management.
- 4. Define the concept of Logistics Management.

NA-283	(1)	Turn Over
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5. Jobs 1 2 3 4

Machine A 5 1 9 3

Machine B 2 6 7 8

Processing Time in Hours.

5

10

4

Determine a sequence for the five jobs that will minimize the elapsed time.

- 6. Find out the reorder level from the following information:
 - (a) Minimum stock, 1,000 Units
 - (b) Maximum stock, 2,000 Units
 - (c) Time required for receiving the material,

 15 days
 - (d) Daily consumption of material, 50 units $4\times5=20$

Section-B

- 7. "Production and operation management is the management of an organisation's production system, which converts inputs into the organisation's products and services." Discuss.
- 8. Demand forecasting is essential in production and operation management. Do you agree with the statement? Support your answer with suitable examples.

NA-283

- Describe the various factors which may increase or decrease the production capacity of an organisation.
- 10. The normal and crash duration with cost for various activities are given below. The indirect cost for the supervision of the work is Rs. 2,000 per week:
 - (a) Draw a network diagram for these activities showing critical path.
 - (b) What is the normal duration and total normal cost for the completion of the project ?
 - (c) Crash the relevant activities systematically to bring down the project duration to 11 weeks.

 What is the total cost then?

Activity	Time (Weeks)		Cost	(Rs.)
	Normal	Crash	Normal	Crash
1–2	1	1	5,000	5,000
2–3	ii 11 3 muoo	2 dis	5,000	12,000
2–4	b off too	a v41, blu	11,000	17,000
3–4	5	3	10,000	12,000
3–5	8	6	8,500	12,500
4–5	4	2	8,500	16,500
5–6	l l	1	5,000	5,000 2×15=30
VA-283		(3)		Turn Over

Section-C

- 11. Explain in detail 'Motion study'. What are the various techniques used for motion study?
- 12. What are the various components of supply chain of a business unit? Explain in detail.
- 13. Write short notes on the following:
 - (a) Principles of purchase management
 - (b) Time study vs. Motion study
 - (c) Just in Time (JIT)
- 14. ABC Ltd. uses 1200 units per month of an electronic component each costing Rs. 2. Placing an order costsRs. 50 and carrying cost is 6% per year of the average inventory :
 - (a) Find E. O. Q
 - (b) If the company gets 5% discount. If it places single order, should they accept the discount offer? $2\times15=30$