(i)	Printed Pa	ges :	4]
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Roll No.

(ii) Questions

: 14] Sub.

Sub. Code : 0 8 3 2

Exam. Code : 0 0

0 0 1 5

Bachelor of Commerce 5th Semester Examination

1127

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.

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(1)

Turn Over

5.	Jobs		
	Machine	A	
	Machine	В	

	1	2	3	4	5
1	5	1	9	3	10
3	2	6	7	8	4

Processing Time in Hours.

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

- "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.

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(2)

- 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 ?
 - 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	3	2	5,000	12,000
2–4	7	4	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	1	1	5,000	5,000 2×15=30
NA-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 costs Rs. 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? 2×15=30

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(4)