

ACADEMIC YEAR 2021 – 2022

Program	Year	Semester	Paper
Diploma in logistics and transport management	2	1	Main

MODULE NAME:	Logistics Management
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MODULE CODE:	PTRL II.I	EXAM DATE:	10/01/2022
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TEACHER'S NAME:	Bekir Sahin	DURATION:	120 Min
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Questions to be answered on:	Allowed requirements	Number of pages
Space provided on the question paper	Pen, Pencil, Calculator	(Incl. Cover Page): 3

Points of Attention:

- For each question, the maximum earned points are mentioned between brackets at the end of each question.
- Write very clearly! Answers that are not readable are not marked and do not get points!
- Make sure your answers are written to the point.
- All answers should be written **in English**.
- Show all the calculation steps in the given space.
- Any cheating/copying may result in an instant failing of the examination.

FINAL MARKS

STUDENT NAME:	
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STUDENT ID:	
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	40
	10

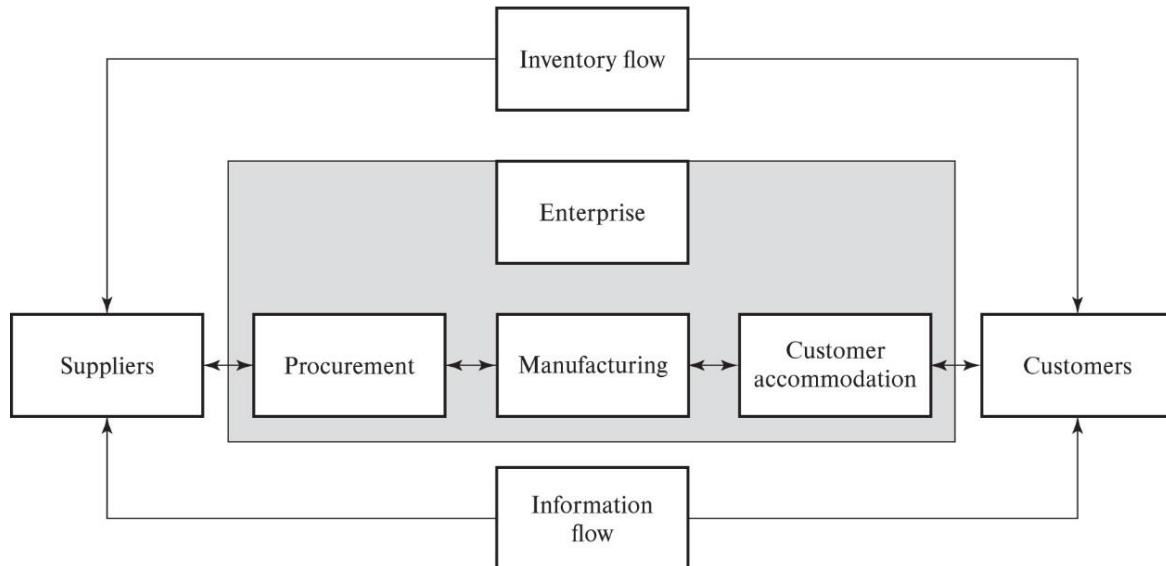
Number of answer scripts:

Invigilator:

Student's signature:

Time of receipt:

1. The following figure shows the logistical integration. To achieve logistical integration within a supply chain context, please write and explain the operational objectives that must be simultaneously achieved. **(10 marks)**



2. Advanced planning and scheduling (APS) (i) focuses on component or item, (ii) considers network of plants, distribution centers, and customers, and (iii) requires links for lead times. A sample APS planning situation is given below. Please calculate the values of production and inventory carryover for alternatives 1 and 2. **(10 marks)**

Time Period	1	2	3	4	5
Requirement	125	125	125	375	125
Production Capacity	187.5	187.5	187.5	187.5	187.5
Alternative 1 (overtime):					
Production					
Inventory Carryover					
Alternative 2 (build ahead):					
Production					
Inventory Carryover					

3. Discuss the following questions **(10 marks)**

What are the quality dimensions? (2,5 marks)

Who is customer? (2,5 marks)

What are the fundamental elements of customer service? (2,5 marks)

What is customer satisfaction? (2,5 marks)

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4. The demand types are (1) Independent versus dependent demand, (2) Stationary versus dynamic demand., (3) Single versus multi-echelon demand, (4) Single-item versus system demand. Please describe the demand types one-by-one and discuss them each other. (10 marks)

END OF EXAM