

ACADEMIC YEAR 2021 – 2022

Program	Year	Semester	Paper
Logistics and Transport Management	1	2	Final

MODULE NAME:	Introduction to Logistics
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MODULE CODE:	PTRL I.I	EXAM DATE:	
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TEACHER'S NAME:	Dr. Samsul Islam	DURATION:	150 Minutes
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Questions to be answered on:	Allowed requirements	Number of pages
Space provided on the question paper	Pen and Calculator	(Incl. Cover Page): 7

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**.
- Answer written in **PENCIL** will not be marked.
- Use the **pencil** only for **diagrams & graphs & drawings**, if applicable.
- **Show all the calculation steps in the given space.**
- When finished, **click on the submit button** on the Moodle or Microsoft Teams
- Any cheating/copying may result in an instant failing of the examination.

FINAL MARKS

STUDENT NAME:	
STUDENT ID:	

	40
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Number of answer scripts:

Invigilator:

Student's signature:

Time of receipt:

DECLARATION OF ACADEMIC INTEGRITY

	Form Title	Declaration of Academic Integrity
	Department	Academic Departments
	Form Code	IMCO/QMS/AD/FORM
	Issue Date	17/01/2016

Please sign to confirm that you have read and accepted the following statements. Your assessment will not be accepted without this signed declaration.

1. I confirm that I have read and fully understood IMCO's policy on Academic Integrity, including practices that may lead to committing plagiarism and which I must avoid.
2. I confirm that in the attached assessment I have not presented or attempted to present anyone else's work as my own, except where I have indicated. I confirm that I understand that doing so would mean I had committed plagiarism.
3. I confirm that I understand that, if I fail to comply with IMCO's policy on Academic Integrity, IMCO will impose penalties which may in the most serious of cases result in termination of my studies at IMCO. I confirm that I understand that if I am judged guilty of plagiarism I will receive a score of zero and the other penalties indicated under IMCO's policy on Academic Integrity in the Student's Handbook will apply.
4. I agree to IMCO submitting my work to *Turn-it-in* or using any other source to verify whether my work contains plagiarised material.

The extent to which I have worked with others is as follows:

Programme:

Module Code:

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Signature

Date:

See the Student Handbook for IMCO's policy on Academic Integrity and Plagiarism before you sign.

PART A: UNDERSTANDING QUESTIONS: (16 MARKS)

1. The future business will undoubtedly be market-driven, with logistics processes providing a critical means for achieving firm goals. **How Logistics affect achieving business firm objectives?** (in not less than 40 words) **(4 Marks)**

2. The inventory's primary purpose is to act as a buffer against uncertainty; holding a stock can be expensive; therefore, the optimum level must be defined. **How would you interpret the optimum level of the inventory, and what factors determine inventory level?** (not less than 30 words) **(4 Marks)**

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3. There are many functions/ units in the company, adding value to the customers. For example, the manufacturing function creates the form utility, and possession utility creates by the marketing function/unit. Therefore, logistics is a redundant function created by elite academics; if you agree with this statement, please write your opinion supported by evidence; if not, defend your point of view? **(4 Marks)**

4. Transportation is one of the essential elements of any logistics system; discuss the role and contributions of transportation systems on the logistics performance of the company and economy of the country? (Not less than 40 word) **(4 Marks)**

PART B: APPLY AND ANALYZE QUESTIONS: (12 MARKS)

1. For an SKU, the standard deviation of demand during the lead time is 150 units, the annual demand is 10,000 units, and the order quantity is 750 units. Management says it will tolerate only one stockout per year. **(4 Marks)**

- a. What safety stock should be carried? 1 Marks
- b. What is the average inventory? 1 Marks
- c. If the lead time is 2 weeks, what is the order point? 2 Marks

2. FAISAL SHOP notices that demand for an item his company supplies is constant at 200 units a month, the Unit cost is 100 OMR. The purchasing department sends out an average of 500 orders a year, and the ordering cost is 15 OMR. Every unit is costing 10% to behold for one year. Please calculate the economic order quantity. **(4 Marks)**

3. To produce any product or service you need to secure the flow of the inputs and facilities, every organization has to move materials, parts, components, service, and ect... for the continuity of its operations? How would you relate logistics with service companies like education, health, and financial service providers? Support your answer with some examples for each type of service provider? (Not less than 40 words) **(4 Marks)**

PART C: EVALUATE QUESTION: (12 MARKS)

1. If the flow of materials is appropriately planned and managed co-ordinated, there is no need for stock and, therefore, no need for warehouses. how could you justify this statement? **(4 Marks)**
2. The cost of logistics varies widely from organization to organization. What factors affect these costs? Are the costs fixed, or can they be controlled? **(4 Marks)**

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3. Why is it essential for a firm to have a written purchasing ethics policy? What is the importance of commitment to the policy? (Not less than 40 words) **(4 Marks)**

Reference:

Waters, D. and Rinsler, S., 2014. *Global logistics: New directions in supply chain management*. Kogan Page Publishers.

Anthony G. Bennett., 2010. *Lessons and Best Practices From the World's Greatest Companies*. McGraw-Hill Companies