C–4208	Sub. Code
	81021

M.B.A. DEGREE EXAMINATION

INTEGRATED SHIPPING AND LOGISTICS

APRIL 2021 EXAMINATION

&

APRIL 2020 ARREAR EXAMINATION

Second Semester

QUANTITATIVE METHODS FOR MANAGEMENT

(2019 onwards)

Duration : 3 Hours Maximum : 75 Marks

Part A (10 × 2 = 20)

Answer **all** questions.

1. What is constants and variables?

2. Write a short note on optimization.

3. What is uni-variate?

4. Write a short note on measures of central tendency.

5. What is poison distribution? What are the main characteristics of poison distribution?

6. Write a short notes on probability distribution.

7. What is linear programming?

8. Write a short notes on optimization models.

9. What is trans-shipment model?

10. Write a short note on critical path method.

Part B $(5 \times 5 = 25)$

Answer **all** questions by choosing either (a) or (b).

11. (a) Explain in briefly about linear and non linear functions.

Or

(b) Describe the use of differentiation for optimization of business problems.

12. (a) What is correlation? What is the significance of positive and negative correlation?

Or

(b) Calculate the mean, median and mode of the given data below :

Marks :	100	200	300	400	500	600
No. of students :	80	230	450	650	750	800

13. (a) A bay containts 6 white, 4 red and 10 black balls. Two balls are drawn at random. Find the probability that they will both be black.

Or

(b) Explain normal distribution and its applications.

14. (a) Fit a straight line trend by the method of least squares to the following data. Assuming the same rate of change continuous what would be the predicated sales for the year 2016?

Year:	2007	2008	2009	2010	2011	2012	2013	2014
Sales (Lakhs):	76	80	130	144	138	120	174	190

Calculate trend value from 2007 to 2014.

Or

(b) Use simplex method to solve the following LPP.

Max $z = 5x_1 + 8x_2$

Subject to the constraints

$2x_1 + x_2 \leq 48$

$2x_1 + 5x_2 \leq 100$

$2x_1 + 3x_2 \leq 80$

$x_1 \geq 0$ and $x_2 \geq 0$.

15. (a) Find the basic feasible solution by a least 3 different methods for a transportation problem.

From/To	A	B	C	D	Availability
F_1	10	7	3	6	3
F_2	1	6	7	3	5
F_3	7	4	5	6	7
Demand	3	2	6	4	

Or

(b) What is critical path? How its important for evaluating a project?

Part C (3 × 10 = 30)

Answer **all** questions by choosing either (a) or (b).

16. (a) Differentiate linear and non linear functions.

Or

(b) Discuss the various measures of central tendency.

17. (a) How correlation and regression analysis differ each other? Discuss various types of correlation and application of correlation as non-parametric tests.

Or

(b) Solve the following LPP using graphical method.

Maximize $z = 100X + 100Y$

Subject to constraints

$10x + 5y \leq 80$

$4x + 8y \geq 24$

$5x + 6y \leq 90$

$x \geq 0,\ y \geq 0.$

18. (a) Explain the different types of transportation problems.

Or

(b) What is meant by regression analysis? How does it help in business decision making?

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C–4209	Sub. Code
	81025

M.B.A. DEGREE EXAMINATION

INTEGRATED SHIPPING AND LOGISTICS

APRIL 2021 EXAMINATION

&

APRIL 2020 ARREAR EXAMINATION

Second Semester

MANAGEMENT INFORMATION SYSTEM

(2019 onwards)

Duration : 3 Hours Maximum : 75 Marks

Part A (10 × 2 = 20)

Answer **all** questions.

1. What is management information system?

2. What are the components of an information system?

3. Write a short notes on information reporting system.

4. Mention the functions of financial information system.

5. Write a short note on fuzzy logic systems.

6. State the importance to include a model in DSS.

7. What is EDI?

8. Write a short note on centralised and decentralised distributed system.

9. List the risks involved in online operation.

10. Write a short notes on denial of service.

Part B (5 × 5 = 25)

Answer **all** questions by choosing either (a) or (b).

11. (a) Give the framework for MIS organization and explain its components.

Or

(b) List the different types of information system.

12. (a) Is it necessary that information system for operations and decision making.

Or

(b) Explain briefly how information is for strategic advantage can be used.

13. (a) Distinguish between natural and artificial intelligence.

Or

(b) Describe the business applications of AI.

14. (a) Write the objectives of information system and strategic advantages and uses of information technology.

Or

(b) Explain the different applications perfumed by EDI.

15. (a) Explain the ethics followed by IS professionals.

Or

(b) Discuss the major aspects of information system security.

Part C (3 × 10 = 30)

Answer **all** questions by choosing either (a) or (b).

16. (a) Explain the role of uses in developing an information system for decision making. How will you establish the framework?

Or

(b) Discuss the importance of information reporting system.

17. (a) Describe the components of an expert system.

Or

(b) Explain the dimension of the information resource management.

18. (a) Discuss the organisations that promote ethical issues.

Or

(b) Explain the challenges involved in the implementation of MIS.

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C–4210	Sub. Code
	81026

M.B.A. DEGREE EXAMINATION

INTEGRATED SHIPPING AND LOGISTICS

APRIL 2021 EXAMINATION

&

APRIL 2020 ARREAR EXAMINATION

Second Semester

FUNDAMENTALS OF SHIPPING

(2019 onwards)

Duration : 3 Hours Maximum : 75 Marks

Part A (10 × 2 = 20)

Answer **all** questions.

1. Define shipping industry.
2. What is professionalism?
3. Write short note on current route.
4. What is shipping Geography?
5. Write short notes on BALTIC EXCHANGE.
6. What is origin of ships?
7. Write short notes on MLB.
8. What is origin of documents?
9. Write short notes on plant quarantine authorities.
10. Define world Tonnage.

Part B (5 × 5 = 25)

Answer **all** questions, choosing either (a) or (b).

11. (a) Describe the professionalism in shipping.

Or

(b) Briefly explain the various facts of shipping industry.

12. (a) Describe the Global maritime network.

Or

(b) Discuss about the international trade Geography.

13. (a) Explain the types of shipping operations.

Or

(b) Discuss the SALVAGE association.

14. (a) Explain the history of Railways?

Or

(b) Describe the history of Automobiles.

15. (a) Explain the world's largest ship owners.

Or

(b) Enumerate the plant quarantine Authorities.

Part C (3 × 10 = 30)

Answer **all** questions, choosing either (a) or (b).

16. (a) Explain the Role of shipping for economic growth in detail.

Or

(b) Describe the scenario of Global shipping and logistics in detail.

17. (a) Describe the ship deployment and liner shipping connectivity in detail.

Or

(b) Explain the European expansion and colonization in detail.

18. (a) Explain the customs and central excise Authorities in detail.

Or

(b) Enumerate the Income tax and Reserve Bank.

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