C–8799	Sub. Code
	81021

M.B.A. DEGREE EXAMINATION, APRIL 2023.

Second Semester

Integrated Shipping And Logistics

QUANTITATIVE METHODS FOR MANAGEMENT

(2019 onwards)

Duration : 3 Hours   Maximum : 75 Marks

Part A   (10 × 2 = 20)

Answer **all** the questions.

1. Write a short note on Integration.

2. What is Non Linear function?

3. Write about the two Regression lines.

4. Write short notes on types of Correlation.

5. What is Binomial distribution?

6. What is Normal Distribution? Explain its characteristics.

7. What are the different types of Mathematical Models?

8. Short note on Graphical Solution of a system of linear equations.

9. Define PERT.

10. What is CPM?

Answer **all** the questions.

11. (a) Explain the concept of Differentiation and Integration.

Or

(b) Discuss the functions of Non linear models.

12. (a) Discuss about various measures of Central Tendency.

Or

(b) Calculate the Median and Mode of the data given below:

Marks	10	20	30	40	50	60
No. Of Students	8	23	45	65	75	80

13. (a) One bag contains 4 White and 2 Black Balls another bag contains 3 White and 5 Black Balls if one ball is drawn from each bag. Find the probability that

    (i) both are white

    (ii) both are black

Or

(b) Discuss the various approaches to calculate probability.

C–8799

14. (a) What is Mathematical Modeling? Explain its objectives.

Or

(b) Explain the concept of Dual Linear programming.

15. (a) Four jobs 1, 2, 3 and 4 are to be processed on each of the five machines A, B, C, D and E in the ABCDE order. Find the total elapsed time if no passing jobs is permitted.

Machines

		A	B	C	D	E
	1	7	5	2	3	9
Jobs	2	6	6	4	5	10
	3	5	4	5	6	8
	4	8	3	3	2	6

Or

(b) Explain in detail about the concept of PERT and CPM.

Part C $(3 \times 10 = 30)$

Answer **all** the questions.

16. (a) Explain in detail about the functions, constraints and variables and its usages.

Or

(b) Discuss the correlation and regression related to Business Applications.

3

C–8799

17. (a) Formulate the steps of Graphical Method with suitable examples.

Or

(b) The IQ's of army volunteers in a given year are normally distributed with mean = 110 and Standard Deviation = 10. The Army wants to give advanced training to 20% of those recruits with the highest scores. What is the lowest IQ score accepted for Advanced Training?

18. (a) A company has 4 Sales Territories and 4 Salesman available for assignment. The Sales Territories are not equally rich in their sales potential and salesman also differ in their selling ability. The following matrix gives that sales (in Thousand Rupees) for each salesman to be assigned to each territory.

	Territory			
Salesman	I	II	III	IV
A	42	35	28	21
B	30	25	20	15
C	30	25	20	15
D	24	20	16	12

How should that territories be assigned so as to maximize the total sales.

Or

(b) Explain the Assumption of Transportation Problem.

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4

C–8800	Sub. Code
	81025

M.B.A. DEGREE EXAMINATION, APRIL 2023.

Second Semester

Integrated Shipping And Logistics

MANAGEMENT INFORMATION SYSTEM

(2019 onwards)

Duration : 3 Hours   Maximum : 75 Marks

Part A $(10 \times 2 = 20)$

Answer **all** questions.

1. State the advantages of MIS

2. Distinguish between Data and Information.

3. What are the functions of marketing information system?

4. Write a short notes on Financial Information System.

5. Distinguish between EIS and DSS

6. Write a short notes on Genetic Algorithms

7. How to manage management information resources?

8. Write a short notes on Global Information Technology.

9. What is Spoofing?

10. List the ethics followed by IT Professionals.

Answer **all** the questions.

11. (a) MIS can be helpful in information Organisation - Discuss

Or

(b) Explain the evaluation of information system.

12. (a) Explain in detail about Transaction Processing System.

Or

(b) Describe the uses of Information System in Finance Sector.

13. (a) List the components of DSS and explain in detail.

Or

(b) Highlight the Business Application of Artifical intelligence.

14. (a) Describe the managing Information resources and technologies.

Or

(b) Explain in detail about IS architecture and management.

15. (a) Discuss the security and ethical issues of MIS.

Or

(b) How can you ensure security of an Information System?

C–8800

Part C (3 × 10 = 30)

Answer **all** questions.

16. (a) Discuss the framework for an MIS established and its uses.

Or

(b) Discuss the classification of DSS with its characteristics.

17. (a) Discuss the various types of Information System used for Decision making.

Or

(b) Write the objectives of Information System for strategic advantage and Strategic uses of Information Technology.

18. (a) Elaborate the issues in Operating in online.

Or

(b) Discuss in detail about Information Reporting System

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3   **C–8800**

C–8801		Sub. Code
		81026

M.B.A. DEGREE EXAMINATION, APRIL 2023

Second Semester

Integrated Shipping and Logistics

FUNDAMENTALS OF SHIPPING

(2019 onwards)

Duration : 3 Hours   Maximum : 75 Marks

Part A $(10 \times 2 = 20)$

Answer **all** questions.

1. Define shipping.

2. List out the documents required for shipping.

3. What is meant by shipping geography?

4. Define maritime network.

5. Why authentication required in shipping?

6. Expand UNCTD.

7. What is meant by age of steam?

8. Mention the steps involved in registration of ships.

9. Define cargo stowage.

10. Who is the world's largest ship owners?

Answer **all** questions

11. (a) Describe the future trend in shipping.

Or

(b) Narrate the various facets of shipping industry.

12. (a) Write short note on agricultural geography.

Or

(b) Explain the advantages and disadvantages of atlas.

13. (a) Elaborate the Importance of authentication in shipping.

Or

(b) Discuss the issues connected with HMS Victory.

14. (a) Exhibit the role of shipping companies in India.

Or

(b) Enumerate the role of international confederation of free trade union.

15. (a) Narrate the importance of marine department.

Or

(b) Write short note on plant quarantine authorities.

Part C (3 × 10 = 30)

Answer **all** questions.

16. (a) Describe the role of shipping in economic growth.

Or

(b) Narrate the India's role in world shipping market.

17. (a) Explain the various types of shipping geography.

Or

(b) Discuss about the types of shipping operations.

18. (a) Distinguish between railways transport and water transport.

Or

(b) Elaborate the role of port health authorities.

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3