C-4208

Sub. Code 81021

#### M.B.A. DEGREE EXAMINATION

# INTEGRATED SHIPPING AND LOGISTICS APRIL 2021 EXAMINATION

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#### APRIL 2020 ARREAR EXAMINATION

#### **Second Semester**

## QUANTITATIVE METHODS FOR MANAGEMENT

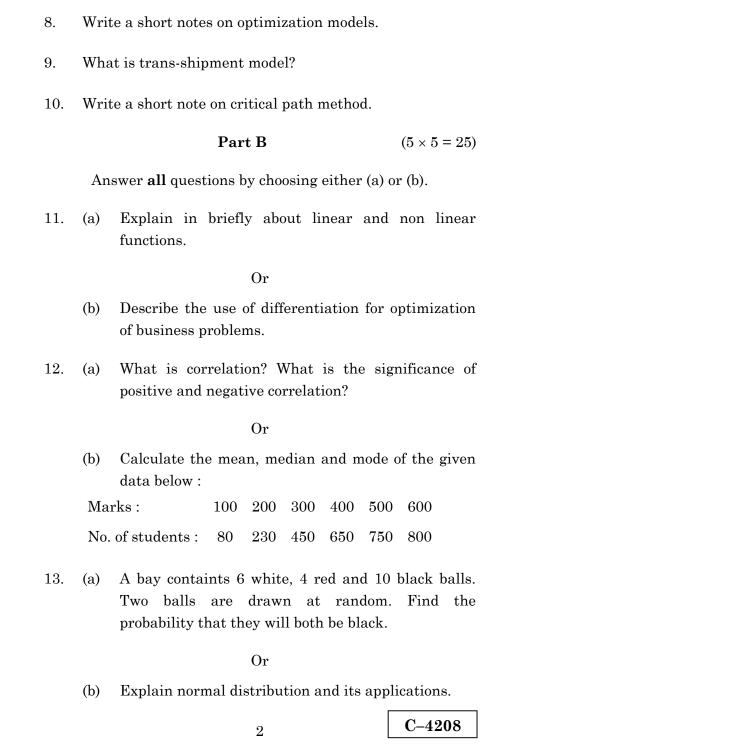
(2019 onwards)

Duration: 3 Hours Maximum: 75 Marks

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

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?



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

$$2x_1 + x_2 \le 48$$

$$2x_1 + 5x_2 \le 100$$

$$2x_1 + 3x_2 \le 80$$

$$x_1 \ge 0$$
 and  $x_2 \ge 0$ .

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?

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

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

$$10x + 5y \le 80$$

$$4x + 8y \ge 24$$

$$5x + 6y \le 90$$

$$x \ge 0, \ y \ge 0.$$

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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#### M.B.A. DEGREE EXAMINATION

# INTEGRATED SHIPPING AND LOGISTICS APRIL 2021 EXAMINATION

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#### APRIL 2020 ARREAR EXAMINATION

#### **Second Semester**

#### MANAGEMENT INFORMATION SYSTEM

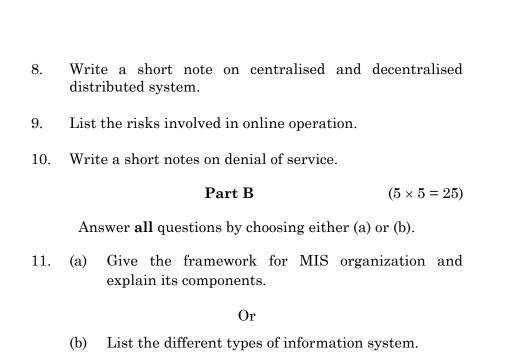
(2019 onwards)

Duration: 3 Hours Maximum: 75 Marks

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

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?



(a) Is it necessary that information system for

12.

Or

operations and decision making.

(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.

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15.	(a)	Explain the ethics followed by IS professionals.
		$\operatorname{Or}$
	(b)	Discuss the major aspects of information system security.
		<b>Part C</b> $(3 \times 10 = 30)$
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.

 $O_1$ 

- (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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# M.B.A. DEGREE EXAMINATION INTEGRATED SHIPPING AND LOGISTICS APRIL 2021 EXAMINATION

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#### **APRIL 2020 ARREAR EXAMINATION**

#### Second Semester

### FUNDAMENTALS OF SHIPPING

(2019 onwards)

Duration: 3 Hours

Maximum: 75 Marks

Part A

 $(10 \times 2 = 20)$ 

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**  $(5 \times 5 = 25)$ 

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.

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

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.