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***B.Tech. Degree VIII Semester Regular Examination in
Marine Engineering June 2023***

**19-208-0802 SHIP OPERATION AND MANAGEMENT
(2019 Scheme)**

Time: 3 Hours

Maximum Marks: 60

Course Outcome

On successful completion of the course, the students will be able to:

- CO1: Understand the brief history of shipping, the conference systems and the bills of lading.
 CO2: Gain knowledge regarding marine insurance and organizational structure of shipping companies.
 CO3: Explain capitalization and finance, shipping operations and commercial shipping practice.
 CO4: Understand the different provisions of merchant shipping act.
 CO5: Gain knowledge of maritime declaration of health, marine fraud and present scenario of Indian Shipping.

Bloom's Taxonomy Levels (BL): L1 – Remember, L2 – Understand, L3 – Apply, L4 – Analyze, L5 – Evaluate, L6 – Create

PI – Programme Indicators

(Answer ALL questions)

(5 × 15 = 75)

			Marks	BL	CO	PI
I.	(a)	Describe the salient features of 'carriage of goods by sea' Act.	8	L1	1	2.1.1
	(b)	Elaborate the Indian heritage in Shipping.	7	L1	1	2.1.1
OR						
II.	(a)	What are the advantages of multi model transportation?	8	L2	1	4.1.1
	(b)	Narrate the evolution of containerisation in shipping.	7	L1	1	2.1.1
III.	(a)	Illustrate the principles of Marine Insurance.	5	L2	2	6.1.1
	(b)	What is envisaged by under writing and loss adjustment in shipping?	10	L3	2	6.2.1
OR						
IV.	(a)	Sketch an organisational structure of a standard shipping company.	8	L2	2	11.1.1
	(b)	State the basis in which manning of a ship decided.	7	L3	2	2.1.1
V.	(a)	What are the various sources of finance in purchase of a new/old ship?	8	L2	3	11.1.2
	(b)	Describe the implications of acquiring a new ship, considering the use of alternate fuels.	7	L3	3	11.2.1
OR						
VI.	(a)	What is lenders security with regard to purchase of ship?	6	L2	3	11.2.1
	(b)	How do you plan a sailing schedule including the oil estimate?	9	L3	3	11.1.1
VII.	(a)	Describe the procedure to register a ship under M. S Act.	10	L2	4	2.1.1
	(b)	What do you understand by the term 'genuine link' in ship operation?	5	L3	4	1.2.1
OR						
VIII.	(a)	Describe the impact of MARPOL convention on the work of a Marine Engineer.	8	L2	4	2.1.2
	(b)	Enumerate the steps you will take during bunkering to prevent pollution.	7	L3	4	2.1.3

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		Marks	BL	CO	PI
IX.	Write short notes on:				
	(i) Decarbonisation and IMO strategy	5	L1	5	2.1.1
	(ii) P&I clubs and functions	5	L1	5	2.1.1
	(iii) Innocent passage.	5	L2	5	2.1.1
	OR				
X.	Write short notes on:				
	(i) Liner and Tramp ships	5	L2	5	2.1.1
	(ii) Bulk carrier hazards and ESP	5	L2	5	2.1.1
	(iii) Ship recycling.	5	L2	5	2.1.1

Blooms's Taxonomy Levels

L2 – 35.3%, L3 – 47.4%, L4 – 17.3%.
