

--	--	--	--	--	--	--	--

**B.Tech. Degree VII Semester Examination in Marine Engineering  
February 2021**

**MRE 1802 SHIP OPERATION AND MANAGEMENT  
(2013 Scheme)**

Time : 3 Hours

Maximum Marks : 100

(5 × 20 = 100)

- I. (a) Explain what is Multimodal transportation and what are its advantages and disadvantages. (10)  
(b) Differentiate between Shipping council and Shipping conference. (10)  
**OR**
- II. (a) Differentiate between Bare boat Charter and Time Charter. (10)  
(b) State the differences between Bill of Lading and Mates Receipt. (10)
- III. (a) Differentiate between particular average and General average. (12)  
(b) Describe in detail what are the three Main types of Marine insurances. (8)  
**OR**
- IV. (a) Explain the essentials of a successful turnaround strategy. (12)  
(b) Describe regarding the organizational structure of a shipping company. (8)
- V. (a) Discuss the implications of buying old and new ships. (13)  
(b) Illustrate how Capitalization and Finance forms an integral part of Shipping industry. (7)  
**OR**
- VI. (a) Explain how manning of ships are done. (7)  
(b) Prepare a voyage estimate and give the break-even freight rate using the following data: (13)  
Cargo to load 52000 MT,  
Ballast passage distance 2500 NM at speed 13.5 Kts,  
Laden passage distance 3100 NM at speed 13.0 Kts,  
Port stay: load port 1.5 days, discharge port 4 days,  
Bunker Price: FO USD 120 /MT, DO 155/MT.  
Bunker cons. FO- 40 MT/ day,  
DO- 2 MT/ day (at Sea) 3 MT/day (in Port)  
Charter in V/I Daily Hire USD 8000. Total Port Expenses USD 60,000,  
Miscellaneous expenses USD 5000.
- VII. (a) Explain why marine pilotage is an important aspect of ship operation and what are the duties of a Marine Pilot. (10)  
(b) Define what is Flag State and what is Flag of convenience. (10)  
**OR**
- VIII. (a) Describe different port procedures and documentation which is required to be completed by the Master prior arrival port. (10)  
(b) Explain your understanding of Shipping casualties and penalties under MS Act. (10)
- IX. (a) Write in detail regarding Maritime declaration of Health and its importance in controlling the spread of infectious diseases around the world. (13)  
(b) How will you differentiate between an infected ship, Suspected ship and a Healthy ship as per the International Health Regulations? (7)  
**OR**
- X. (a) Describe what is maritime fraud. What are the six major categories of fraud as classified by UNCTAD? (13)  
(b) Briefly describe what is a documentary fraud and what is Charter party fraud? (7)