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BMR301

Third Semester B.E./B.Tech Degree Examination, June/July 2024

Basic Ship Knowledge and Watch Keeping

Time: 3 hrs.

Max. Marks: 100

*Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. M : Marks , L: Bloom's level , C: Course outcomes.*

Module – 1			M	L	C
Q.1	a.	Describe the longitudinal view of a ship and identify the key sections and parts.	10	L2	CO1
	b.	Explain the key features of deck arrangements and their significance in ship operations.	10	L2	CO1
OR					
Q.2	a.	Describe the accommodation arrangements on a ship like Bridge, Galley, Mess rooms.	10	L2	CO1
	b.	Explain the various deck machinery such as Mooring winches, Windlass, and Anchor chain.	10	L2	CO1
Module – 2					
Q.3	a.	Explain the characteristics of container ships/RoRo ships / refrigerated ships , Cattle ships , Heavy Cargo ships.	10	L2	CO2
	b.	Describe the features and operations of Bulk carriers, Ore carriers , Coal carriers , Grain carriers.	10	L2	CO2
OR					
Q.4	a.	Explain the characteristics and operation of Crude carriers, Product tankers, Chemical carriers , LPG and LNG tankers.	10	L2	CO2
	b.	Describe the function of Off shore vessels like Drill ships , Anchor handling tugs , Dredgers , Tugs.	10	L2	CO2
Module – 3					
Q.5	a.	Explain the Manning requirements of Deck , Engine and Catering departments on ship.	10	L3	CO3
	b.	Discuss the requirements for COC for class 4 , class 2 and class 1 as per DG requirements.	10	L3	CO2
OR					
Q.6	a.	Discuss the importance and role of IMO in regulating World shipping.	10	L3	CO3
	b.	Explain the role of Flag State and Port State control in Maritime regulations.	10	L3	CO2

Module – 4					
Q.7	a.	Explain the key considerations and procedures involved in the operation of vessels while in port for loading , unloading of Cargo.	10	L2	CO3
	b.	Define a Watch and discuss the principles and various watch keeping arrangements on a ship.	10	L2	CO3
OR					
Q.8	a.	Discuss the requirements of Watch keeping including fitness for duty, risk hours, alcohol limits , certificate of competency (COC).	10	L2	CO3
	b.	Describe the preparation process for the main engine for a sea voyage.	10	L3	CO4
Module – 5					
Q.9	a.	Explain the fire triangle and discuss the different types of fires that can occur in a ship.	10	L2	CO4
	b.	Discuss grounding of a ship, including checking of tance soundings and precautions to take.	10	L2	CO4
OR					
Q.10	a.	Outline the procedure for dealing with flooding of the engine room.	10	L2	CO4
	b.	Discuss the importance of Life saving equipment in emergency situations.	10	L2	CO4

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