## CBCS SCHEME

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# Fourth Semester B.E. Degree Examination, June/July 2024 Basic Ship Knowledge and Watch Keeping

Max. Marks: 100 Time: 3 hrs. Note: Answer any FIVE full questions, choosing ONE full question from each module. Module-1 Draw side/sectional views of crude oil tanker and show the position of 1 (iii) Draft marks (ii) Name of a ship (iv) Gangway (i) Load line (v) Double bottorn tank (vi) Stern tube (vii) Anchor (viii) Chain locker (ix) Tug Push Mark (x) Engine Room Emergency escape and state their purpose. (15 Marks) b. Explain briefly the purpose of (i) Wind loss (ii) forward and aft mooring winches. (05 Marks) Write a short notes on (i) Duct keel (ii) Coffer dam (iii) Air vents and sounding pipes (iv) Lower hold and twan deck (v) Markings on the stern (15 Marks) b. What is the meaning of cold chambers. Explain the three different types of cold chambers. (05 Marks) Module-2 3 Write short notes on: (i) Gearless bulk carriers (ii) Antiheeling system on a container ship (iii) Ship's lines (iv) Container types (for different cargo) (v) Short and unrestricted international voyages. (20 Marks) OR What is a tanker? Explain its types by size as well as by the cargo they carry (10 Marks) What us an offshore vessel? How different they are from the main vessels? Explain five important types of offshore vessels. (10 Marks) Module-3 Compare the STCW and DGS systems for certification of officers in-charge of engineering watch, second engineer officer and chief engineer officer of a container vessel powered by (12 Marks) 10000 kW propulsion power. b. Who is incharge of Mercantile Marine department? State its functions. (08 Marks) OR Write short notes on: 6 Directorate General of Shipping and its objective Flag of convenience

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

(20 Marks)

Substandard ships and Parris MOU

d. Shipping Master

## 21MR44

## Module-4

- a. Imagine you are sailing on a oil tanker and proceeding to a discharge terminal. What are all the activities carried out till finished with engine after obtaining Two hours notice from the bridge.

  (12 Marks)
  - b. What are the principles of watch keeping in the engine room?

(08 Marks)

## OR

- Write short notes on:
  - a. Dry docking of a Cargo vessel
  - b. Sea watch and port watch arrangements on ocean going vessels.
  - c. Standing orders of Chief Engineer (Give atleast five)
  - d. Fitness for duty and rest hours.

(20 Marks)

### Module-5

9 a. Write down the procedure to fight large engine room fire on a container ship at sea.

(10 Marks)

b. What is emergency power? Explain the SOLAS requirements for emergency power for a Cargo ship. (10 Marks)

#### OR

- Write short notes on:
  - a. Portable extinguishers and fixed fire fighting systems
  - b. Emergency bilge suction in the engine room
  - c. Paint locker fire fighting system
  - d. Life saving appliances

(20 Marks)