GBGS SCHEME

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Third Semester B.E. Degree Examination, Feb./Mar. 2022 Elementary Navigation, Seamanship and Survival at Sea

Time: 3 hrs. Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- a. Briefly explain the organizational structure of the engine and deck department on board a merchant ship with their duties and their ranks. (17 Marks)
 - b. Imagine a crew member has been put on deck and suffers from a heat stroke. What is the first aid you will provide? (03 Marks)

OR

- 2 a. You have been given the job of testing and approving a life buoy as you first job. List the criteria for approving a life buoy under SOLAS. (10 Marks)
 - b. You have been asked to communicate the name of your ship 'GANGES' to the Neighboring ship. List the phonetic alphabets you would use. (04 Marks)
 - c. Write a short note on oil tankers.

(06 Marks)

Module-2

Explain in detail the procedure for lowering and boarding a Davit type life boat. (20 Marks)

OR

- 4 a. Draw and explain the structure for No1, No2 and No3 wire ropes.
- (15 Marks)

b. Briefly explain the mooring gear and Name its parts.

(05 Marks)

Module-3

5 a. What is the typical information you would get from a Weather report given to a ship.

(06 Marks)

b. Explain the heavy weather precautions to be taken for a tanker vessel in open water conditions. (14 Marks)

OR

6 a. Explain the Beaufort wind scale and the need for it.

(15 Marks)

b. Explain why Tsunami is a very dangerous and undesirable condition at sea and port.

(05 Marks)

Module-4

- 7 a. Imagine your ship has grounded and is sinking. You have been forced to jump to the sea. Explain the procedure to launch and get on the life rafts. (15 Marks)
 - b. Name and explain the different types of life rafts.

(05 Marks)

OR

- 8 a. Explain the SOLAS requirements for the items to be present on a life boat. (15 Marks)
 - b. Explain Hypothermia.

(05 Marks)

Module-5

- 9 a. You are working on a chemical carrier. Explain the discharge criteria and the Marpol Annex associated with the ship. (15 Marks)
 - b. What were the major objectives of ISPS?

(05 Marks)

OR

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What is the SOLAS convention? Explain each chapter briefly.

(20 Marks)