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17MR35

## Third Semester B.E. Degree Examination, June/July 2019 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

- 1 a. What are the statutory regulation for the following life saving appliances (14 Marks)  
i) Life buoy ii) Life jacket  
b. Define the following: i) Draft ii) Gangway iii) Life boat iv) LOA v) LBP vi) Depth. (06 Marks)

OR

- 2 Explain the working organization on board merchant vessels in the following department:  
i) Engine Department ii) Deck departments. Explain each role briefly. (20 Marks)

### Module-2

- 3 Explain the procedure for lowering and hoisting a Davit type life boat. (20 Marks)

OR

- 4 Explain the purpose of an anchoring system and explain the individual parts. (20 Marks)

### Module-3

- 5 a. Explain the different types of commonly used methods of navigation. (10 Marks)  
b. Explain the Beaufort wind scale. (10 Marks)

OR

- 6 Explain the heavy weather precautions to be taken by a general cargo vessel for  
i) Stability ii) Navigation iii) Ondeck. (20 Marks)

### Module-4

- 7 a. Explain the procedure for launching a life raft and the precautions to be taken. (14 Marks)  
b. Explain the working of an HRU. (06 Marks)

OR

- 8 How are life rafts classified and explain the contents present in a life raft. (20 Marks)

### Module-5

- 9 What is MarPoL? Explain each annex briefly. (20 Marks)

OR

- 10 What is SOLAS? Explain briefly each chapter. (20 Marks)

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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.