

Third Semester B.E. Degree Examination, June/July 2015

Elementary Navigation, Seamanship and Survival at Sea

Time: 3 hrs.

Max. Marks:100

**Note: Answer FIVE full questions, selecting
at least TWO questions from each part.**

PART -- A

- 1 a. Write down the hierarchy onboard a ship or ship's organization (include engine, Deck and saloon department). (05 Marks)
- b. Why signal flags are used on ships? What is the meaning of following flags?
i) Alfa ii) Bravo iii) Hotel iv) India (05 Marks)
- c. List the precautions to be taken in bad weather. (10 Marks)

- 2 a. Explain the following lines with diagram. Also state their purpose
i) Head line ii) Forward Breast line iii) Forward spring
iv) Aft spring v) Aft Breast line vi) Stern line (12 Marks)
- b. Explain : i) overhand knot
ii) Figure of eight knot (08 Marks)

- 3 a. Explain working of echo-sounder. (10 Marks)
- b. Explain : i) Sextant
ii) GMT (10 Marks)

- 4 a. What is HRU? Explain its working. (10 Marks)
- b. Write the procedure for manual launching of life raft. (10 Marks)

PART -- B

- 5 a. What is a muster list? Explain important features of musterlist. (10 Marks)
- b. What is pyrotechnic? Explain different types of pyrotechnics available onboard. (10 Marks)

- 6 List at least 20 equipment in lifeboat and their purpose. (20 Marks)

- 7 a. Write a brief note on MARPOL. (10 Marks)
- b. Write a brief note on SOLAS. (10 Marks)

- 8 a. Explain lifeboat lowering procedure. (10 Marks)
- b. Write a note on handling of ropes. (10 Marks)