

--	--	--	--	--	--	--	--	--	--

Third Semester B.E. Degree Examination, June / July 2014
Elementary Navigation, Seamanship & 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. Explain the term: i) Accommodation ii) Engine room iii) Monkey bridge
iv) Wheel house (10 Marks)
- b. i) Explain with diagram about colour and location and visibility angle of navigation lights. (10 Marks)
ii) Explain the duties of lookout man.
- 2** Explain with uses about:
- a. Canvas.
b. Heaving line.
c. Rat guard.
d. Anchor cable stopper.
e. Mooring line; and name of each mooring line. (20 Marks)
- 3** a. Explain with diagram about sextant. (10 Marks)
b. i) What is principal stars?
ii) What is navigation compasses? Explain with types of navigation compasses? (10 Marks)
- 4** List the complete survival packages included in life raft and explain about,
i) Solas A pack.
ii) Solas B pack.
iii) Rescue Boat. (20 Marks)

PART – B

- 5** a. Explain shortly about,
i) Marine distress signal equipments.
ii) Red hand flair.
iii) Para Flair.
iv) Orange smoke signal.
v) M.O.B market. (15 Marks)
- b. Explain about manning of life boat and raft. (05 Marks)
- 6** What should be done in a life boat and in life raft in hot climate and cold climate and give a brief about importance of water in survival craft? (20 Marks)
- 7** Give a brief about introduction of marpol and its annexes. (20 Marks)
- 8** a. What is Rope splice? Explain the types of splices and uses of splices. (10 Marks)
b. Explain shortly:
i) Donning of life jackets.
ii) Sheet bend uses.
iii) Reef knot uses.
iv) Figure and knot uses. (10 Marks)

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.