USN | | | | | | | | | | |

15MR35

Third Semester B.E. Degree Examination, Dec.2017/Jan.2018
Elementary Navigation, Seamanship and Survival at Sea

Time: 3 hrs.

Max. Marks: 80

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

Module-1

1   a. Explain the terms: i) Fare castle   ii) Bulbous Bow   iii) Windloss   iv) Camber. (08 Marks)

    b. What are the precautions to be taken during bad weather? (08 Marks)

OR

2   a. Explain Flag etiquette at sea and hoisting of flag when arriving and leaving a part. (10 Marks)

    b. Explain the duties of lookout man. (06 Marks)

Module-2

3   a. Explain cable stopper in detail with neat diagram. (08 Marks)

    b. Write all the general care and maintenance of ropes used in whips. (08 Marks)

OR

4   a. Draw and explain the mooring of a ship of jetty. (10 Marks)

    b. Explain the use and sketch the following :
       i) Heaving line   ii) Carrick bend   iii) Bow line. (06 Marks)

Module-3

5   a. List and explain various Navigational equipment used on board ship. (10 Marks)

    b. What is log book and list the entries filled in engine room log book. (06 Marks)

OR

6   a. What is barometer? Mention the types and explain any one type of barometer. (08 Marks)

    b. With a neat sketch explain the construction and working principle of sextant and its errors. (08 Marks)

Module-4

7   a. What is a muster list? What are the contents mention and which all places it is required to be displayed? (12 Marks)

    b. Write the general requirements of immersion suits. (04 Marks)

OR

8   a. Explain the working of HRU with a neat labeled sketch. (08 Marks)

    b. What is pyrotechnic? Brief all types of pyrotechnics available onboard. (08 Marks)

Module-5

9   a. Explain STEW and briefly all its chapters. (10 Marks)

    b. Write a note on LOADLINE. (06 Marks)

OR

10   a. Explain MARPOL convention and all its annexes. (10 Marks)

     b. What is the objective of SOLAS and list its chapters. (06 Marks)

* * * * *