

CBGS SCHEME

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15MR35

Third Semester B.E. Degree Examination, June/July 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. Write a brief note on Morse code, semaphore signal and sound signals used in ships. (12 Marks)
b. Explain the initial action and duties of crew members onboard survival craft. (04 Marks)

OR

- 2 a. Explain all navigational lights and signals used on-board during different ship operations in detail with neat sketch. (10 Marks)
b. Explain the term:
i) Fore castle ii) Hawspipe iii) Freeboard
iv) Gangway v) Bilge vi) Stern tube. (06 Marks)

Module-2

- 3 a. Explain dropping of anchor in detail. (06 Marks)
b. Write note on general care and maintenance of ropes. (06 Marks)
c. Explain the uses of :
i) Heaving line ii) Cable stopper. (04 Marks)

OR

- 4 a. Draw the layout of mooring lines and explain all the lines and its purpose. (12 Marks)
b. Explain construction details and donning procedure of life jackets. (04 Marks)

Module-3

- 5 a. Explain the principle and working of echo-sounder and also write the errors of echo-sounder. (12 Marks)
b. Write a brief note on navigation compass. (04 Marks)

OR

- 6 a. Explain working principle of sextant with neat sketch and also explain the errors and corrections. (12 Marks)
b. List atleast 10 wireless navigational instrument used in bridge. (04 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. All remaining questions should be attempted and all questions should be attempted.

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Module-4

- 7 a. Explain in detail the features of muster list. (08 Marks)
b. Draw HRU and explain the complete procedure of automatic launching of inflatable life raft (08 Marks)

OR

- 8 a. Write a note on constructional requirement for immersion on suit and TPA (Thermal Protective Aid). (08 Marks)
b. List the complete survival packages included in life raft as per SOLAS. (08 Marks)

Module-5

- 9 a. Write a brief note on MARPOL and its annexes. (08 Marks)
b. Explain briefly the main objectives of ISPS code. (08 Marks)

OR

- 10 a. Explain STCW and name its chapters. (08 Marks)
b. Write a note on : i) ISM ii) IMO. (08 Marks)

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