

V26/S01035/EE/20160717

Time : 3 Hours

Marks : 80

Instruction :

1. All Questions are Compulsory.
 2. Each Sub-question carry 5 marks.
 3. Each Sub-question should be answered between 75 to 100 words. Write every questions answer on separate page.
 4. Question paper of 80 Marks, it will be converted in to your programme structure marks.
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1. Solve any **four** sub-questions.
 - a) Describe Cardinal marks including color, top marks and lights. 5
 - b) While heading on a Westerly course, you observe a South cardinal mark on your starboard bow. What action will you take and on which side will you pass the buoy? 5
 - c) Your ship's course is 355° True. You observe an East cardinal buoy on your port bow, what action will you take and on which side will you pass the buoy? 5
 - d) Describe a special mark with color, top mark and light. 5
 - e) Describe a Fairway buoy with sketch and its use. 5
2. Solve any **four** sub-questions.
 - a) Explain the procedure to be followed to determine the position of the vessel by a running fix. 5
 - b) Define the following : masthead light, Side lights, Towing lights, Stern light, All-round light. 5
 - c) Describe the lights and shapes displayed by a vessel engaged in under water operations. 5
 - d) Describe color, range and arc of visibility of navigational lights displayed by a power driven vessel 180 meters in length. 5
 - e) What sound signals are used by a power driven vessel underway and making way through the water and also when underway but stopped? 5

3. Solve any **four** sub-questions.
- a) Briefly describe spring tides, neap tides and duration of tides. 5
 - b) Define the following terms : Chart datum, Height of tide, high water. 5
 - c) What is range of tide? 5
 - d) What is slack water? 5
 - e) Explain with the help of a diagram, taking a fix by the method of 'doubling the angle on the bow'. 5
4. Solve any **four** sub-questions.
- a) Why passage planning is done and what are the main advantages of passage planning? 5
 - b) Make a list of publications that you will refer to while preparing a passage plan. 5
 - c) What is Admiralty chart catalogue? 5
 - d) What is NP 5011? 5
 - e) What are Admiralty tide tables and what information do you get from these publications. 5

