No.	of	Prin	ited	Pa	ges	:	2

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BNA-015

## **B.Sc.** (NAUTICAL SCIENCE)

#### **Term-End Examination**

June, 2014

#### **BNA-015: NAVIGATION-II**

# (BRIDGE EQUIPMENT, WATCH KEEPING METEOROLOGY AND OCEANOGRAPHY)

Time: 2 hours

Maximum Marks: 70

Note: Answer any four questions from Section- I and all questions from Section- II. All questions carry equal marks.

#### **SECTION - I**

#### (BRIDGE EQUIPMENT AND WATCH KEEPING)

- 1. What are the errors of perpendicularity and side 10 error on a sextant? How are these corrected?
- 2. How does a magnetic compass give direction? 10 What care is required for a wet card magnetic compass?
- 3. Explain the principle on which an echo sounder 10 functions.
- 4. (a) Explain how to decide whether a vessel is overtaking.
  - (b) Explain "safe speed".
- 5. Describe with suitable sketch, the lights to be carried by a vessel "Not Under Command".

### **SECTION - II**

# (METEOROLOGY AND OCEANOGRAPHY)

6.	(a) (b)	Explain pressure gradient Explain Solar and Terrestial radiators	5 5				
7.	•	.What are the causes of "Global Warming"? What are its effects?					
8.	(a) (b)	Define relative humidity.  Define dew point temperature. How is it useful during navigation?	3 7				