B.Sc. (NAUTICAL SCIENCE)

Term-End Examination December, 2013

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 WATCHKEEPING)

- 1. List three errors of the sextant and the reason for these errors.
- 2. What is the purpose of "Gyro compass? List four methods to find out gyro error.
- 3. Explain the working of an echo sounder with suitable sketch.
- 4. (a) List the duties of a "lookout"5 (b) Explain the term "vessel constrained by her "draught".
- 5. Describe with suitable sketch, the lights to be carried by a vessel 200m, long, underway.

SECTION-II

(METEOROLOGY AND OCEANOGRAPHY)

6.	(a)	Explain with suitable sketch, vertical layers of the atmosphere.	5
	(b)	Explain pressure distribution in the atmosphere.	5
7.	Explain 'Global Warming" and its effect on climate change.		10
8.	(a) (b) (c) (d)	Cribe <i>any four</i> from following: Green house effect Temperature inversion Dew point SALR Radiation	10
	(e)	Radiation	