

B.Sc. (NAUTICAL SCIENCE)

Term-End Examination

00055 **December, 2014**

**BNA-041 : NAVIGATIONAL AIDS AND
ENVIRONMENTAL PROTECTION**

Time : 3 hours

Maximum Marks : 70

Note : *All questions are compulsory. All questions carry equal marks. Write each answer from fresh page.*

1. Explain in detail how a Voyage Data Recorder fulfils its role in international investigations. 10
2. What is the principle of a Doppler Log ? What is "Janus configuration" ? 10
3. Name any two paint failures and write short notes on them. 10
4. Explain in brief the problems associated with "RO-RO" ships. 10
5. Name ten types of containers and the respective cargoes carried on these containers. 10

6. Explain with diagram, how container numbering is done on board. 10

 7. Explain in detail the reporting procedure, when a ship is involved in an emergency or a marine pollution incident. 10
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