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BN	A-041

B.Sc. (NAUTICAL SCIENCE)		
Term-End Examination		
June, 2010		

BNA-041 : NAVIGATIONAL AIDS & ENVIRONMENTAL PROTECTION

Time : S	3 hours	Maximum Marks : 70
Note :	Attempt any three questions fro four questions from Section-B	•
	equal marks.	

SECTION-A

NAVIGATIONAL AIDS

- 1. (a) Enumerate the principle on which AIS broadcast mode is based.
 - (b) List 10 data items to be recorded by a VDR.
- 2. (a) What are the components of the Radar Transmitter unit ?
 - (b) What is the difference between ship's head up and north up mode of presentation of the display ?
- **3.** What is the purpose of VTS ?
- 4. Enumerate the pilot transfer arrangements required as per solas chapter V.

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SECTION-B

ENVIRONMENTAL PROTECTION, EMERGENCIES AND SAFETY

- 5. Name any two paint failures and write short notes on them.
- 6. What are the main problems with the design of RO-RO ships ?
- 7. Describe the method of container identification on board a ship.
- 8. Name any five objectives of GMDSS.
- 9. Explain the three basic tools of fire fighting.
- **10.** Write short note on Indian SAR Organisation.

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