

01945

B.Sc. (NAUTICAL SCIENCE)

Term-End Examination

June, 2012

BNA-041 : NAVIGATIONAL AIDS AND ENVIRONMENTAL PROTECTION

Time : 3 hours

Maximum Marks : 70

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- Note :* (i) *Attempt All questions.*
(ii) *All questions carries equal marks.*
(iii) *Start each answer from fresh page.*
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1. (a) Name at-least ten components of an ON board AIS.
(b) State the static and dynamic informations provided by AIS.
2. (a) Explain the operational requirements of VDR.
(b) List the data to be recorded by VDR and its source (10 items)
3. What are the obligations of the master upon receiving the distress message ?
4. Explain in detail various paint failures on board.

5. What are the problems associated with RO-RO ships ? Explain in detail RO/RO vehicle operations procedures.

 6. What are various VTS tools for successful VTS operation ?

 7. What action should a navigating officer take on observing unidentified /suspiciously manoeuvred vessel in areas prone to piracy attacks ?
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