

B.Sc. (NAUTICAL SCIENCE)

Term-End Examination

December, 2011

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

00649

Time : 3 hours

Maximum Marks : 70

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- Note :** (i) *All questions are compulsory.*
(ii) *Choice is given in the questions.*
(iii) *All questions carries equal marks.*
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1. Enumerate three different types of information transmitted by AIS and list the information. 10
2. How ARPA is useful for collision avoidance ? Support your answer with "OAW" triangle. 10
3. What are the principles related to bridge design as per Solas chapter V ? 10

OR

What are the requirements of testing and drills of steering gear as per Solas ?

4. How is the steel work prepared for painting ? 10

OR

What are the benefits of using self polishing antifouling ?

5. What are the problems associated with Ro-Ro ships ? 10

OR

What are the technical aspects when related to container safety and container vessel damages ?

6. What would be the future uses of the VTS ? 10
7. What are the factors, which determine the type of manoeuvre in case of man over board ? 10
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