

B.Sc (NAUTICAL SCIENCE)

Term-End Examination

December, 2010

00905

BNA-041 : NAVIGATIONAL AIDS AND ENVIRONMENTAL PROTECTION

Time : 3 hours

Maximum Marks : 70

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- Note :** (i) *Attempt any three questions from Section A.*
(ii) *And any four questions from Section B.*
(iii) *All questions carry equal marks.*
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SECTION-A
NAVIGATIONAL AIDS

1. (a) Enumerate five inherent limitations of A.I.S.
(b) How does Doppler log provide Athwartship speed over ground?
2. (a) List 5 main units of a Radar Set.
(b) Name 2 modes of display of Arpa. When would you use each mode ?
3. What is Simplified Voyage Data Recorder ?
4. What does "ECDIS" stand for ? Can it be accepted as meeting the chart carriage requirement as per Solas chapter V ?

SECTION-B
ENVIRONMENTAL PROTECTION,
EMERGENCIES AND SAFETY

5. How do anti fouling paints protect ship's hull ?
 6. What information is contained on the CSC plate of a container ?
 7. What are the hazards associated with carriage of cars on a pure car carrier ?
 8. As per GMDSS, what is the difference between sea areas A1 and A2 ?
 9. What is the advantage of VTS to ships in approaches to ports ?
 10. Piracy activities have increased off the coast of Somalia and in approaches to Gulf of Aden. What measures should be taken if your ship is to transit this area ?
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