

B.Sc. (NAUTICAL SCIENCE)

Term-End Examination

December, 2011

BNA - 031 : SHIP SAFETY AND SECURITY

Time : 3 hours

Maximum Marks : 70

Note : Attempt any three questions from section - A and any four questions from section - B. All questions carry equal marks. The answers shall be in your own language.

SECTION - A

Watch Keeping and Procedures

1. (a) What do you understand by "When in doubt call the master" ? 7
(b) When would you need to slow down engines during bad weather ? 3
2. Enumerate 10 cautions to be exercised when using "Auto-Pilot." 10
3. As per IMO publication "Ship's Routeing", Explain with suitable sketch, the following : 5x2=10
 - (a) Traffic separation zone
 - (b) Round about
 - (c) Inshore traffic zone
 - (d) Deep water route
 - (e) Precautionary area
4. Who all are members of the "Bridge Team" and what are their responsibilities ? 10

SECTION - B
Safety and Security

5. Define "Risk." List 5 main elements of risk assessment process. 10
6. As per ship security plan, list 10 restricted areas of the ship. 10
7. What are biometrics ? Name four common Physical Biometrics. 10
8. (a) As per IMO safety symbols and signs, state what the following colour codes are associated with : 5
(i) Red (ii) Green
(iii) Yellow (iv) Blue
(b) What is an emergency ? Name 5 different types of emergencies. 5
9. What safety items are used on or near the gangway or accommodation ladder ? 10
10. (a) State the operations considered to be 'Hot Work' and subject to "Permit to Work". 5
(b) What protective gear is used during Hot Work ? 5
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