

B.Sc. (NAUTICAL SCIENCE)

Term-End Examination

December, 2013

BNA - 031 : SHIP SAFETY AND SECURITY

Time : 3 Hours

Maximum Marks : 70

*Note : Attempt **any three** questions from Section I and **any four** question from Section II. All questions carry **equal** marks.*

SECTION-I

WATCH KEEPING AND PROCEDURES

1. Enumerate 10 checks to be made by the officer of the watch at sea during his/her watch. 10
2. List five controls provided on the autopilot and give the purposes of each of these controls. 10
3. List general guidelines on navigation when using weather routing systems. 10
4. What is the relationship between the Master and Pilot ? What information is exchanged between them on boarding of pilot ? 10

SECTION-II
SAFETY AND SECURITY

5. What are the elements of the risk assessment process ? Explain. **10**

 6. Explain the following terms used in ISPS code : **2x5**
 - (a) Ship Security Plan
 - (b) Security Level 2

 7. Name the biometrics commonly used for the purpose of establishing the identity of a person and describe any one of them. **10**

 8. What is an emergency ? List 5 different types of emergencies on board and explain any one of them. **10**

 9. Name two types of man-made ropes and two types of synthetic ropes. List three advantages each of man made ropes and synthetic ropes. **10**

 10. What precautions should be taken during electric arc welding on board ? **10**
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