

B.Sc. (NAUTICAL SCIENCE)

Term-End Examination

01451

December, 2015

**BNA-051 : SHIP MANOEUVRING AND FUTURE
ISSUES**

Time : 3 hours

Maximum Marks : 70

Note : Attempt any seven questions. All questions carry equal marks.

1. Discuss in detail the propeller action and its effect on ship manoeuvring and propulsion. 10
2. Describe the factors that affect handling of a ship. 10
3. Discuss how variations in the Block Coefficient of a ship affects ship manoeuvring in shallow waters. 10
4. What is the need for Mutual Insurance ? How is it of advantage to a ship owner ? 10
5. Explain about the training and education of a ship's personnel required for ballast water and sediment management. 10

6. State in your own words the regulations for the prevention of pollution by sewage from ships. 10
 7. Give an overview of energy resources available worldwide. Which of these are 'clean' energy resources ? 10
 8. What are the advantages and disadvantages of a Double Hull ? 10
 9. What are the objectives of providing a place of refuge ? Why do coastal nations fail to provide a place of refuge in practice ? 10
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