

**B.Sc. (NAUTICAL SCIENCE)**

**Term-End Examination**

**December, 2012**

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

*Time : 3 Hours*

*Maximum Marks : 70*

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

**SECTION - A**

1. Give comparison of Steam Turbine with Diesel Engines with Respect to : 5x2=10
  - (a) Start/Stop
  - (b) Changes in Speed When Manoeuvring
  - (c) Full Power Ahead
  - (d) Stern Power
  - (e) Maintenance
  
2. Describe the immediate actions that should be taken when a person is reported to have fallen overboard. 10
  
3. What is Said Squat and what are the main factors Affecting Ship Squat ? 10

4. What are "Azimuth Stern Drive" Tugs ? What are the advantages and disadvantages of these types of tugs ? **10**
5. In marine Insurance what is the difference between " H and M" and "P and I" covers ? **10**
6. Name 10 Documents, that an inspector would like to see during vetting inspection. **10**

## SECTION - B

### FUTURE ISSUES

7. How do Port States Monitor/Enforce ballast water management practices ? 10
  8. What are the various discharge criteria for sewage as per marpol 73/78, Annex IV ? 10
  9. What methods are being employed to control air pollution ? 10
  10. What action is Required on the part of master, requesting for "Place of Refuge" ? 10
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