

B.Sc. (NAUTICAL SCIENCE)

01436

Term-End Examination

December, 2014

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

Time : 3 hours

Maximum Marks : 70

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

SECTION I

1. What manoeuvring 'information' is provided on
Wheelhouse Poster? 10
2. With suitable sketches explain "Williamson turn"
and "Scharnow's turn" for man overboard
manoeuvre. 10
3. What are the risks covered by P and I
insurance? 10
4. Name five common deficiencies related with
navigation that could be easily rectified prior to
vetting inspection. 10

SECTION II

5. What are the discharge criteria for sewage using different methods? 10
 6. What specific information is required to be contained in "Bunker Delivery Note"? 10
 7. Describe the primary and secondary methods to control SO_x emissions. 10
 8. What is Wave energy? State the advantages and disadvantages of Wave energy. 10
 9. What action is required by the Master of a ship who needs to call a place of refuge? 10
 10. Describe the IMO guidelines on ship recycling. 10
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