No.	of	Printed	Pages	:	2
-----	----	----------------	--------------	---	---

BNA-051

B.Sc. (NAUTICAL SCIENCE)

00795

Term-End Examination June, 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 language.

SECTION - A

- (a) List 5 Environmental factors affecting mandeuvring capabilities of a ship. 2x5=10
 - (b) On a turning circle diagram, show tactical diameter and drift angle.
- 2. State factors to be taken into consideration when choosing anchorage position for the ship.
- 3. What do you understand by 'Bank Suction' and "Bank Cushion" Effect? What hazards are posed by these?
- 4. Name 3 types of Tugs. What are the factors 10 affecting performance of Tugs?
- 5. What are the various types of marine policies? 10
- 6. Name five common deficiencies during vetting 10 inspections that could be easily rectified.

SECTION - B

FUTURE ISSUES

7.	State 10 safety precautions which must be provided in the approved "Ballast water exchange at sea " plan.	10
8.	What are seca's? Name the seca's in force at present.	10
9.	What is a bunker delivery note? What are the requirements for the same?	10
10.	What are IMO guidelines with respect to recycling of ships?	10