

INDIAN MARITIME UNIVERSITY
(A Central University, Government of India)

May/ June 2017 End Semester Examinations
Diploma in Nautical Science- Second Semester
(AY 2012- 2015 batches only)

Navigation IV- (UD11T2202)

(Advanced Bridge Equipment, Watchkeeping and Meteorology)

Date : 16.06.2017

Maximum Marks: 70

Time: 2 Hrs

Pass Marks : 28

Section: - A

Bridge Equipment and Watch Keeping

Note: Attempt any Five questions from this section. All questions carry 10 marks each.

1. Draw block diagram of Marine Radar
2. Name various modes of steering and explain their change over procedure
3. Write short notes on (a) ECDIS
(b) Doppler log (5+5)
4. Explain importance of proper record keeping during Bridge Watch
5. What are the various checks an OOW needs to undertake prior to arrival port? Describe briefly.
6. Name Five distress signals as per Annex IV of Collision Regulations.
7. (a) How does the vessel navigate in a narrow channel with special reference to overtaking another vessel? (5)
(b) How does the vessel navigate in a Traffic Separation Scheme with special reference to joining and leaving a traffic lane and crossing a TSS? (5)

Section: - B
Environment Science

Note: Attempt any Two questions from this section. All question carry 10 marks each.

8. Write short notes on (a) Dew point Temperatures
(b) Sea breeze (5+5)
9. Decode the following report
BBXX, ATVH, 10123, 99408, 30492
10. State the difference between true and apparent wind. How is direction and speed of wind obtained on board the ship?
