

INDIAN MARITIME UNIVERSITY
(A Central University, Government of India)
End Semester Examination Dec 2019/Jan 2020
B.Sc. (Nautical Science)
Semester -VI

UG21T3603- Ship Maneuvering & Collision Prevention Regulations

Date: 04-01-2020

Max Marks: 70

Time: 3 Hrs

Pass Marks: 35

Note: Question No. 1 is compulsory.

Answer any 6 questions from remaining 8 questions (each of 10 marks).

Scientific Calculator is permitted if required.

- Q.1 (2 x 5 = 10 marks)
- (a) Define 'Bow Stopper'
 - (b) Define 'Tactical Diameter'
 - (c) Define 'Immediate Action'
 - (d) Define 'Constant Radial Turn'
 - (e) Define 'Armed Robbery'
- Q2. (a) Write down procedure followed for 'Running Moor'? (5 marks)
- (b) What is 'Stock Anchor'? Draw neat sketch with parts named. (5 marks)
- Q3. Write down procedure to Slip Anchor Cable from deck and for clearing foul anchor from under water obstruction? (10 marks)
- Q4. (a) What are the factors affecting ship's Squat? (5 marks)
- (b) Write down the sequence to be followed when sighting MOB? (5 marks)
- Q5. (a) Write down precautions to be followed during mooring operation? (5 marks)
- (b) Write down care to be taken for mooring ropes and wires? (5 marks)
- Q6. (a) Explain arcs of all navigation lights with proper diagram? (5 marks)
- (b) Define 'Vessel Restricted in her ability to manoeuvre'? (5 marks)
- Q.7. (a) Write down FIVE distress signals as per COLREG? (5 marks)
- (b) Write down actions to be taken when approaching or in restricted visibility area? (5 marks)
- Q8. (a) Differentiate between 'Constant Rudder Angle Turn' and 'Constant Radius Turn'? (5 marks)
- (b) Write down actions to be taken in case of mooring ropes parting at berth? (CONSIDER NO PERSONAL INJURY) (5 marks)
- Q.9. (a) Briefly write about fundamental requirements of BMP to be followed to avoid piracy attacks? (5 marks)
- (b) What signs would indicate presence of 'Ice Bergs' ? (5 marks)
