

INDIAN MARITIME UNIVERSITY
(A Central University, Government of India)
End Semester Examinations Dec 2019
DIPLOMA IN NAUTICAL SCIENCE (DNS)
Semester : II
Ship Operations (UD11T2205)

Date: 13-12-2019

Max Marks: 70

Time: 2 Hrs

Pass Marks: 28

Note: Question no. 1 is compulsory. Answer any 6 out of remaining 7 questions.
All Questions carry equal marks.

Q1. Answer following if True or False (10 x 1 = 10 Marks)

- a) MARPOL is an IMO convention for preventing pollution of seas
- b) Garbage Management Plan is not mandatory for ships
- c) Only 1 copy of Muster list is available on a ship
- d) Ship need not have Emergency steering gear
- e) Chemical hazards are associated with hydraulic fluids
- f) Port State Control (PSC) cannot detain a ship for deficiencies
- g) "International code of signals" is a mandatory publication for ships
- h) "Articles of Agreements" must be signed before starting employment on a ship
- h) Ship-owner employs agents for handling his affairs in the port
- i) In "Tramp" trade, ships have regular schedules for calling ports

Q2. (2 x 5 = 10 Marks)

- a. List equipment as required by SOPEP manual
- b. What is "Garbage" on a ship and what is a "Garbage management plan"?

Q3. (10 Marks)

- a. List precautions to be followed when lowering a lifeboat

Q4. (2 x 5 = 10 Marks)

- a. Write meaning of following Engine room terms
 - 1. PPM
 - 2. Valve
 - 3. Cooler
 - 4. Gasket
 - 5. Gauge glass
 - 6. List Machinery found in the engine room

Q5. (2 x 5 = 10 Marks)

- a. Write a note on types of boilers found on ships
- b. Explain advantages of hydraulic systems

Q6. (2 x 5 = 10 Marks)

- a. Describe "Article of agreement"
- b. Write full forms for following
 1. IMO
 2. ILO
 3. WHO
 4. ICS
 5. IRS

Q7. (2 x 5 = 10 Marks)

- a. Write single letter signals (meanings) of the following
 1. B
 2. G
 3. K
 4. V
 5. Z
- b. Explain meaning of the following terms
 1. Bunting
 2. Tack line
 3. Courtesy flag
 4. Quarantine flag
 5. Blue Peter

Q8. (2 x 5 = 10 Marks)

- a. Write Morse code for the following
 1. C
 2. E
 3. M
 4. O
 5. X
- b. Write procedure for Emergency Safety message.
