

**INDIAN MARITIME UNIVERSITY**  
(A Central University, Government of India)  
End Semester Examinations- June-July 2019  
**Semester – VII**  
**B.Tech (Marine Engineering)**  
**Engine Room Management (UG11T2705/T1805)**

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Date: 19-07-2019  
Time: 3 Hrs

Maximum Marks: 100  
Pass Marks: 50

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**PART-A (3X10 = 30Marks)**  
**Compulsory Questions**

- Q. 1.
- a) What surface preparation is done before carrying out COLD WELDING.
  - b) State safety measures to be taken while handling power tools.
  - c) Write short note on Electrical Isolation permit.
  - d) What functions are carried out with help of WINDLASS
  - e) What is ECA and state its latest requirement?
  - f) What things are carried out during "CONTROLS TESTING"
  - g) As 2nd engineer, what are things you will consider while allotting the maintenance job?
  - h) What things are considered while estimating the bunkers requirement for the voyage. ?
  - i) Discuss TOP OVERHAUL in case of Aux. Engines.
  - j) What precautions are taken for predicted bad weather.

**PART-B (5 X14 = 70Marks)**  
**Answer Any Five of the following**

- Q.2
- a) What preparation is done in the engine room on receiving 2 hrs. notice for departure port? (7)
  - b) Discuss the maintenance schedule for Main air compressor, (7)
- Q. 3
- a) Explain 'ABC analysis' and 'J-I-T' inventory control system and their benefits. (7)
  - b) Explain in details how crank case inspection is carried out of a large bore two stroke engine. (7)
- Q.4
- a) What system of Watch keeping is usually adopted on board in a traditionally manned vessel, and UMS ships (7)
  - b) Sketch and describe Ballast system on bulk carrier. (7)
- Q. 5
- a) State how will you take over watch from out- going duty engineer.(7)
  - b) State the criteria to pump out engine room bilges. (7)
- Q.6
- a) State the Precautions to be taken to prevent pollution of Marine Environment: During Bunkering. (7)
  - b) Explain in details the safeties provided on deck crane. (7)

- Q.7 a) For bulk carrier, What major jobs are carried out in dry dock? (7)  
b) What precautions are taken before entering the enclosed space? (7)
- Q.8 a) State the preparation of engine room for UNSHELTERED Anchorage. (7)  
b) What is emergency steering and explain in detail the procedure for the same. (7)