

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)

Date: 19-07-2019
Time: 3 Hrs

Maximum Marks: 100
Pass Marks: 50

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)