

**Indian Maritime University**  
(A Central University, Govt. Of India)  
**End Semester Examination Dec-2019/Jan-2020**  
**B. Tech(Marine Engineering)**  
Semester –VII/VIII  
**Engine Room Management**  
**UG11T2705 / UG11T1805**

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Date: 18-12-2019  
Time: 3 Hrs

Max Marks: **70**  
Pass Marks: **35**

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**Part – A (compulsory)**  
**Answer the following (10x2=20 Marks)**

1. What are pre departure checks?
2. What is "TBO" and on what is it based?
3. What is a Quick Closing Valve and what is it used for?
4. What is a flow meter used for with respect to fuel oil?
5. What is preventive maintenance?
6. What is breakdown maintenance?
7. Why is crankshaft deflection measured?
8. What extinguisher will you use on fire in electrical panel?
9. What mistakes can you make while taking sounding of a fuel tank?
10. Briefly explain actions to be taken against a drunk crew member?

**Part – B**

**Answer any 5 out of 7 questions (5 x 10= 50 marks)**

11. (a) Describe the procedures to be followed in bunkering operations when fuel oil is being received?  
(b) Describe how you will get the main engine and the plant ready for sailing out from a port? (5+5)
12. (a) Describe what is to be done in case of damage to a main engine turbocharger and no spares available?  
(b) What is surging of a turbocharger and what action is to be taken at sea in case of rough weather? (5+5)
13. (a) How should a vessel prepare for a drydock which is about six months away?

- (b) What do you understand by underwater survey? (5+5)
- 14.**(a)How will you hand over watch on a cargo ship at sea?  
(b)How will you take over a watch at sea on a cargo ship? (5+5)
- 15.**(a) What action will you take if the relief valve on a transfer pump used for transferring fuel oil is lifting ?  
(b) What action must a a watch keeper is he notices a fire anywhere on his ship? (5+5)
- 16.** (a) What is "inventory" ? explain why an accurate inventory is important for safe and economical running of a ship?  
(b) State advantages and disadvantages "planned maintenance " and "condition based maintenance"? (5+5)
- 17.**Please write an explanatory letter to the Superintendent about the high consumption of Lub Oil in auxiliary engines in this current voyage and steps taken to rectify the same. (10)