

Register No.:

**244**

**April 2024**

*Time - Three hours*  
(Maximum Marks: 100)

- [N.B. 1. Answer all questions under Part-A. Each question carries 3 marks.  
2. Answer all the questions either (A) or (B) in Part-B. Each question carries 14 marks.]

PART - A

1. Define viscosity.
2. Define bed plates.
3. What is inline diesel engine?
4. What is peak pressure?
5. Write the need for cooling.
6. What is supercharger?
7. Define ignition.
8. What is alarm system?
9. Write the parts of steam engine.
10. Write the advantages of Hydel power plant.

[Turn over.....

PART – B

11. (a) Explain the Otto cycle with a neat sketch.  
(Or)  
(b) Explain the working of 4 stroke engine.
12. (a) Explain air starting system for main engine.  
(Or)  
(b) Explain the working of injector with a neat sketch.
13. (a) Explain the lubrication oil cooling system with neat sketch.  
(Or)  
(b) Explain the working of turbocharger with a neat sketch.
14. (a) Describe compression ignition with neat sketch.  
(Or)  
(b) Explain unmanned ship engine room operation.
15. (a) Explain the working of reciprocating steam engine with neat sketch.  
(Or)  
(b) Explain the working of tidal power plant with neat sketch.

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