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18MR53

Fifth Semester B.E. Degree Examination, Jan./Feb. 2021

Marine Internal Combustion Engine - I

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Draw a neat sketch of Timing diagram of 4 stroke engine. (10 Marks)
- b. Write a note on Slow Speed Engine. (10 Marks)

OR

- 2 a. Draw a neat sketch of Timing diagram of 2 stroke engine. (10 Marks)
- b. Write the classification of Engine. (10 Marks)

Module-2

- 3 a. Explain the types of Crank shaft. (10 Marks)
- b. Draw a structure of 'A' frame and explain its parts. (10 Marks)

OR

- 4 a. Draw a 2 stroke and 4 stroke liner. (10 Marks)
- b. Write down the Bearing faults and defects. (10 Marks)

Module-3

- 5 a. Explain the type of Scavenging. (10 Marks)
- b. Write the merits and demerits of constant pressure type turbo charger. (10 Marks)

OR

- 6 a. Write the faults that occur in turbo charger. (10 Marks)
- b. What is Surging? Write down the reasons and action to be taken. (10 Marks)

Module-4

- 7 What is Starting Air explosion? Write down the Safeties , Action, Prevention for it. (20 Marks)

OR

- 8 What is Scavenge fire? Write down the Indication , Action , Prevention for it. (20 Marks)

Module-5

- 9 a. Explain the type of Lubrication. (10 Marks)
- b. Draw a fuel injector diagram and explain its parts. (10 Marks)

OR

- 10 How microbial degradation of oil take place? State the indication , prevention , treatment. (20 Marks)