

Date: 27/05/2017.

Exam No: _____

new

GANPAT UNIVERSITY

B. TECH SEM- IV (Marine) REGULAR EXAMINATION- MAY/JUNE 2017
2MR407- MARINE AUXILIARY MACHINES -I

Time: 3 HRS

TOTAL MARKS: 60

Instructions: (1) This Question paper has two sections. Attempt each section in separate answer book.
(2) Figures on right indicate marks.
(3) Be precise and to the point in answering the descriptive questions.

SECTION: I

Q.1 Describe with Sketch High Vacuum Evaporator used on ships for producing fresh water from sea water. (10)

OR

Q.1 What are the methods of distillate water treatment? Why it is required? (10)

Q.2 Explain self-cleaning purifier with sketch. Why different types of gravity discs are used? (10)

OR

Q.2 Describe ventilation system of pump room, engine room and battery room. (10)

Q.3 Describe with sketch plate type heat exchanger. What are advantages of plate type heat exchangers? (10)

SECTION: II

Q.4 Explain with neat sketch of Gear pump. Write the difference between Internal & External Gear Pump? (10)

OR

Q.4 (i) Explain with neat sketch of Screw pump. (05)

(ii) Explain with neat sketch of Lobe pump. (05)

Q.5 (i) Explain – Filter & Strainers and distinguish between filters & strainers. (05)

(ii) State the various types of filters with examples. (05)

OR

Q.5 (i) What are uses of compressed air on ships? (05)

(ii) Write the uses of steam on-board ship? (05)

Q.6 Sketch and explain the line diagram of Bilge and Ballast system? What are the statutory requirements for bilge system (10)

-----END OF PAPER-----