

GANPAT UNIVERSITY

B. TECH SEM- V (MARINE) REGULAR EXAMINATION– NOV-DEC 2016

Subject : 2MR505 Marine Electro Technology

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 Explain the Faraday's laws of electrolysis. (10)
OR
Q.1 Explain the grouping of cells. Cells in series and cells in parallel. (10)
Q.2 What are the main parts of Three Phase A.C. Generator? Describe them in detail. (10)
OR
Q. 2 Generator gives high sparking on commutator . What could be the reasons? (10)
Q.3 What is power factor? Why power factor improvement is necessary in installation? (10)
How the power factor can be improved in AC Circuit?

SECTION: II

- Q. 4 Explain the sharing of load between two G1 AND G2 alternators on board ships. (10)
OR
Q.4 Define the general principle of action of an induction motor. Name the main parts of induction motor and explain its function. (10)
Q.5 A star delta starter is connected to a three phase induction motor. Give a good schematic diagram of this combination. (10)
OR
Q.5 Define Megger and tong tester and its use in ships. (10)
Q.6 Explain with diagram, how does the fire alarm and smoke detectors work on board ships? (10)

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