

16 Oct 2018

GP-SET-421

IBRETO C

EXAMINATION OF ELECTROTECHNICAL OFFICER
Functions: Electrical, Electronics & Control Engineering
MARINE ELECTROTECHNOLOGY & SEP

(Time allowed - 3 hours)

(India 2018)

Total Marks: 100

NR : (1) Answer any TEN Questions, Not more than TWO from Each Section

(2) Neatness in handwriting and clarity in expression carries weightage

(3) Illustration of an Answer with clear sketches / diagrams carries weightage.

(4) Write the full question before attempting to write the answer to same.

SECTION - I

1. With Reference to different types of Transformers used onboard.

(a) Discuss the basic principle of operation of a transformer. (5)

(b) Enumerate the different types of transformers used onboard also state their functions for which they are used. (5)

(c) A 440/220 V single phase transformer supplies a load of 5KW at 0.8 power factor load. Calculate the primary and secondary currents. (Ignoring transformer power losses)? (6)

2. Write a short note on the Principle of Operation of Induction Motors. (6)

(a) What is Slip for an induction motor? (4)

(b) If a 4-Pole motor is supplied at 60Hz and runs with a slip of 5%, What is the actual Rotor Speed? (4)

3. With Respect to Insulated and Earthed Neutral Systems used on board:

a. Discuss the Advantages and Disadvantages of both the Insulated and earthed systems used onboard. (8)

b. Discuss the consequences of Earth fault in an earthed distribution system. (4)

c. What would be the Ohmic Value of the NER to limit the earth fault to the full load rating of a 2 MW, 0.8 pf, 3.3KV, 3 Phase A.C. generator? (4)

SECTION - II

4. (a) Explain the construction and principle of operation of permanent magnet moving coil instrument. (8)

(b) A permanent magnet moving coil instrument has a coil of dimension 15 mm x 12 mm. The flux density in the air gap is 1.8×10^{-2} wb/m² and the spring constant is 0.4×10^{-6} Nm / rad. Determine the number of turns.

C-14

S P MARITIME INSTITUTE

Eto Entrance Question Paper

A Gutmann



Eto Entrance Question Paper:

Eto Entrance Question Paper Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Eto Entrance Question Paper**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

https://staging.conocer.cide.edu/public/uploaded-files/index.jsp/life_science_memorandum_paper1_21_november_2014_grade_11.pdf

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