16 Oct 2018 .

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# ENAMINATION OF ELECTRO TECHNICAL OFFICER Functions Identical Electronic & Control Engineering MARINE ELECTROTECHNOLOGY & SSEP

(Time allowed - 3hours)

(India 2018)

NB: (1) Answer any : IN 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

With Reference to different types of Transformers used onboard.

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

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

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)?

- Write a short note on the Principle of Operation of Induction Motors. (8)

  (4)

  (5)

  (6)

  (7)

  (8)

  (9)

  (1)

  (1)

  (1)

  (1)

  (1)

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  (7)

  (8)

  (9)

  (1)

  (1)

  (1)
  - With Respect to Insulated and Earthed Neutral Systems used on board:
     Discuss the Advantages and Disadvantages of both the Insulated and earthed systems used onboard.
    - b. Discuss the consequences of Earth fault in an earthed distribution system. (4)
    - e. What would be the Ohmic Value of the NER to limit the earth fault to the full load rasing of a 2 MW, 0.8 pf, 3.3KV, 3 Phase A.C. generator?

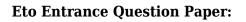
#### SECTION - II

4. (A) Explain the construction and principle of operation of permanent magnet moving coil instrument.
(b) A permanent magnet moving coil instrument has a coil of dimension 15 mm < 12 mm. The flux density in the air gap is 1.8 × 10<sup>-3</sup> wb/m² and the spring constant is 0.4 × 10<sup>-6</sup> Nm / rad. Determine the number of turns C·14.

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# **Eto Entrance Question Paper**

### **A Gutmann**



#### 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 be 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 in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

 $\underline{https://staging.conocer.cide.edu/public/uploaded-files/index.jsp/life\_science\_memorandum\_paper1\_21\_november\_2014\_grade\_11.pdf$ 

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