

16 Oct 2018

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 $\times$ 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.

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