



# EXAMINATION OF MARINE ENGINEER OFFICER

Sr. No. MET-2209

Grade: MEO - Class-IV

Function: Electrical, Electronic & Control Engineering at Operational Level

Subject:

## MARINE ELECTROTECHNOLOGY

Total Marks: 100

(India 2022)

(Time allowed - 3 Hours)

**NB:**

- 1) Answer SIX Questions only.
- 2) All Questions carry equal marks (16 Marks each).
- 3) Unless specified, all the subsections carry equal weightage.
- 4) Neatness in handwriting and clarity in expression carry weightage.
- 5) Illustration of an Answer with clear sketches / diagrams carries weightage.
- 6) All unused pages of Answer sheet must be cancelled out by two lines (X) across the page.
- 7) Start answering from the backside of the front cover page.

1. Explain the matching of an induction electric motor to a pump required for main circulating duty, with the aid of pump characteristic and torque/slip diagrams. (16)
  2. Draw and explain the shape of the characteristic curves of a p - n junction diode in forward and reverse bias modes. (16)
  3. Draw a diagram showing the essential connection of two compound generators A and B coupled to common bus bars for parallel operation. If A is running on the bus bars and supplying all the load, describe the process of bringing B into commission and adjusting it to take its share of the load. (16)
  4. With the aid of clearly drawn and labeled sketches, describe the construction and the principle of operation, of a galvanometer of permanent-magnet moving-coil type. Is such an instrument suitable for use in A.C. circuits? Give reasons for your answer. (16)
- (a) Describe the principles of operation of an electro pneumatic controller. (8)
- (b) Describe the principles of a fuel - air ratio controller. (8)
- (a) Describe a simple single phase transformer. (6)
- (b) A 15 kVA, 440/110-volt, 50 cycle/sec, single-phase transformer has primary and secondary resistances of 0.12 ohm and 0.0077 ohm respectively. The iron loss of the transformer is 0.16 kW. Calculate the efficiency of the transformer (a) on full load unity power factor (b) on 80 per cent full load at a power factor of 0.9 lagging. (10)

# Meo Class Question Papers

**Lingsheng Yao**



**Meo Class Question Papers:**

Meo Class Question Papers: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have captivated audiences this year. Meo Class Question Papers : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Meo Class Question Papers : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Meo Class Question Papers : Delia Owens' "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Pape, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is an exceptional and gripping novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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