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Sample Question Paper

Program Name : Electrical Engineering Program Group
Program Code : EE/EP/EU
Semester : Third
Course Title : Electrical Materials and Wiring Practice
Max. Marks : 70

22328

Time: 3 Hrs.

Instructions:

- (1) All questions are compulsory.
- (2) Illustrate your answers with neat sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Sub-questions in a main question carry equal marks.
- (5) Assume suitable data if necessary.
- (6) Preferably, write the answers in sequential order.

Q.1 Attempt any Five of the following.

10 Marks

- a) Explain the need for following safety rules while working in electrical installations.
- b) Draw the labeled hysteresis loop for an electromagnetic material.
- c) Write any two properties of electrical insulating materials.
- d) State the need for thermal classification of electrical insulating materials.
- e) Explain in brief dielectric failure of cables.
- f) Write the names of any four components used in electrical wiring.
- g) Define earthing related to electrical wiring systems.

Q.2 Attempt any Three of the following.

12 Marks

- a) Write any four of the IE rules to be followed in respect of safety while working on electrical installation systems.
- b) Explain the suitability of aluminum as a conductor with respect to its electrical and mechanical properties.
- c) Explain the electrical, mechanical and thermal properties of mica that make it useful as an electrical insulating material.
- d) A residential unit has a sanctioned load connection of 3.5 kW. Determine the ratings of the main incoming cable/conductor, main switch and the ELCB.

Q.3 Attempt any Three of the following.

12 Marks

- a) Explain the use of the following tools in carrying out electrical wiring installations, i) Nose pliers, ii) Test lamps, iii) Crimping tools and iv) Cutter.
- b) State two applications along with the insulation class and its temperature for the following materials: i) Bakelite sheets and ii) PVC.
- c) Explain with neat labeled diagram the godown wiring system for lighting with one pilot room and two subsequent store rooms.
- d) Explain the uses of safety rubber hand gloves and rubber mats in electrical engineering.

Q.4 Attempt any Three of the following.

12 Marks

- a) Explain the use of the following components in electrical wiring systems and give specifications of each; i) one MCB and ii) one ELCB.
- b) Explain with justification two uses of each of the following as electrical conductors:

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The Top Books of the Year Question Paper Electrical Wiring 2013 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have enthralled audiences this year. Question Paper Electrical Wiring 2013 : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling 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 captivating 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 a brilliant and thrilling 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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