

LAGOS CITY POLYTECHNIC, IKEJA
SCHOOL OF ENGINEERING AND APPLIED SCIENCE
DEPARTMENT OF ELECTRICAL/ELECTRONICS AND COMPUTER
ENGINEERING

2016/2017 SEMESTER EXAMINATION

COURSE	TITLE:	ELECTRICAL	ENGINEERING
COURSE CODE:	EEC 115/EEC 112	SCIENCE I	NO OF QUESTIONS : 6
FOR WHOM:	ND YR I	CE, EE	TIME ALLOWED: 2 HRS
ANSWER ANY			PT INSTRUCTIONS:

FOUR QUESTIONS

- (a) State Ohms law

(b) Determine the Two(2) voltages drops across R_1 and R_2 in a circuit where $R_1 = 1.8\Omega$, $R_2 = 2.2\Omega$ and $V = 12v$

(c) State kirchoffs current law.
- (a) Define Electric Field Strength

(b) What is Relative Permutivity

(c) A wire of diameter 0.6mm, resistivity 1.1×10^{-8} has a resistance of 44Ω calculate the length of the wire.
- (a) Give two examples each of conductors and semi conductors

(b) What is the difference between AC current and DC?

(c) Write down the formula for
 (i) Current (ii) Voltage (iii) Resistance
- (a) Define Mathematically Temperature coefficient of resistance (α)

(b) State Joules law

(c) Calculate the workdone in moving through a distance of 25m by a force of 20N which acts in the direction of the motion of the body.
- (a) Two plates each of area $5cm^2$, are placed parallel to each other and very close together in space between the plates. and a charge of 15×10^{-6} is stored on the plates. Calculate the electric flux density the space between the plates.

(b) The power expended in a certain resistor is given by I^2R . If the power expended in the resistor is 175W when the current is 5A, calculate the power in the resistor when.
 (i) Both current and resistance are double
 (ii) Current is half and resistance double
 (iii) When current is double and resistance half
- (a) A coil has a resistance of 50Ω at $0^\circ C$. If the the temperative coefficient of the coil is $0.0043\Omega/1^\circ C$, determine the resistance of the coil at $25^\circ C$.

(b) An Electric kettle takes 2kw at 2400. Calculate
 (i) The current (ii) The resistance of heating element

(c) An electric motor develops 5kw at the speed of 100 rev/mn. Calculate
 (i) the worth done in 30 mins
 (ii) in the kilowaff hour

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The Top Books of the Year Polytechnic Exam Paper Electrical Bing The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have captivated audiences this year. Polytechnic Exam Paper Electrical Bing : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has gripped 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 succeed. 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 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, 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 compelling stories waiting to be discovered. The novel begins with Richard Pappen, 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 masterful and thrilling novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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