

School of University Polytechnic**Diploma in Electrical Engineering
Semester End Examination - Jun 2024****Duration : 180 Minutes
Max Marks : 100****Sem II - N1DI202B - N1DI201B - Basic Electrical Engg**General Instructions*Answer to the specific question asked**Draw neat, labelled diagrams wherever necessary**Approved data hand books are allowed subject to verification by the Invigilator*

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| 1) | Define inductors. | K1(2) |
| 2) | Explain permeability and its significance in magnetic circuits. | K2(4) |
| 3) | Explain the analogy between electric and magnetic circuits. | K2(6) |
| 4) | Illustrate the advantages of polyphase AC systems over single-phase systems. | K3(9) |
| 5) | Illustrate the concept of current decay in an inductive circuit. | K3(9) |
| 6) | Examine laws first and second law's of Faraday. | K5(10) |
| 7) | Analyze Faraday's laws of electromagnetic induction and discuss their implications in electrical engineering | K4(12) |
| 8) | Examine the benefits of polyphase systems compared to single-phase systems in detail with examples. | K5(15) |
| 9) | Examine what the key features of AC motors are and how they differ from DC motors. | K5(15) |
| 10) | Elaborate norton's theorem with example. | K6(18) |