

School of University Polytechnic

**Diploma in Electrical Engineering
Semester End Examination - Aug 2024**

**Duration : 180 Minutes
Max Marks : 100**

Sem III - N1DI304B - Elementary Mechanical and Civil EngineeringGeneral 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) | Which compass is used for whole circle bearing? | K1(2) |
| 2) | Classify the different types of surveying | K2(4) |
| 3) | Demonstrate the spark ignition process in a petrol engine. | K2(6) |
| 4) | Illustrate the different types of timber found in your area. | K3(9) |
| 5) | Illustrate the standard size of brick used for construction with neat Sketch. | K3(9) |
| 6) | A 20 m chain was found to be 15 cm long after survey if the measured distance was 120 m then Evaluate the actual distance | K5(10) |
| 7) | List and discuss the types of Gear trains with neat sketch. | K4(12) |
| 8) | The following readings were taken with a level and 4 m staff. Draw up a level Book page and assess by H.I method. B.M.(150 m) 0.415, 0.855, 2.765, 2.450,2.005 C.P 0.565 , 1.885, 1.180. | K5(15) |
| 9) | A 20 m chain was found to be 5 cm long after survey if the measured distance was 120 m then Evaluate the actual distance | K5(15) |
| 10) | Discuss how the design of petrol engine differ from diesel engine. | K6(18) |