



KERALA AGRICULTURAL UNIVERSITY
B.Tech.(Agrl. Engg.) 2024 Admission
I Semester Final Examination - March 2025

SWC 1101

Surveying and Levelling (1+2)

Marks:50
Time: 2 hours

I Answer the following (10x1=10)

1. What is the Principle of Chain Surveying?
2. What is local attraction?
3. Define the term fore sight.
4. List the different accessories required for plane table survey.
5. List the temporary adjustments of theodolite.
6. What is an anallactic lens? Mention its constants.
7. Write the acronymy of GPS.
8. What is the function of clinometer?
9. State the limitations of Simpson's rule.
10. What is planimeter?

II Write short notes on ANY FIVE of the following (5x2=10)

1. Define surveying.
2. Define the term benchmark and list the types of benchmarks.
3. Write any two characteristics of contours.
4. What is Total Station?
5. Write any two differences between plane and geodetic surveying.
6. Differentiate plunging and swinging.
7. State the objectives of levelling.

III Answer ANY FIVE of the following (5x4=20)

1. Explain Direct and Indirect methods of Ranging.
2. Discuss the different types of errors in plane table survey.
3. Explain fixed and movable hair methods.
4. Discuss about Trapezoidal and Simpson's rule.
5. Describe the uses of contouring.
6. Write the advantages of total station.
7. List the types of curves and define the term setting of curves.

IV Write an essay on ANY ONE of the following (1x10=10)

1. Explain the procedure for determination of horizontal angle using repetition and reiteration method.
2. Explain the different classifications of surveying.
