

UNIT-I

SURVEYING AND CIVIL ENGINEERING MATERIALS

PART-A (16 Marks)

PART-B (16 Marks)

1. Explain with neat sketch prismatic compass and principles of compass surveying.

(16)

2. Explain with neat sketch 20m chain and principles of chain surveying. (16)

3. The following staff readings were observed successively with level, the instrument

4. What are the requirements of good building stone & state important varieties of Building stones (16)

5 The following perpendicular offset were taken at 10 meter intervals from an Survey line to an irregular boundary line

3.145m, 4.30m, 8.20m, 5.60m, 7.60m, 4.2m, 5.6m, 4.3m.

Calculate the area enclosed between the survey line, the irregular boundary line, and first and last offsets by the application of

a) Average ordinate method b) Trapezoidal rule and c) Simpson's rule

(16)

6. What are the different types of cement? Explain the properties and uses?

(16)

7. What are the different types of steel? Explain the properties and uses?

(16)