

**Hemchandracharya North Gujarat University
Community College**

**Advanced Diploma in Agriculture and Soil sciences
Sem III End Term Examination, February, 2016**

Subject: Farm layout, development, management and field plot technique (AS-302)

Time: 2 hrs

Date: 02/02/2016

Maximum marks: 40

Q.1 Answer all questions. Each question carries 1 mark . (10*1=10 Marks)

1. Agricultural surveying is type of..... surveying
a. Plane b. Land c. Marine d. Geodetic
2. 10 Gunter's chains =
a. 1 furlong b. 2 furlong
c. 3 furlong d. 4 furlong
3. It is the method of measuring distance with a chain or tape
a. Chaining b. Leveling c. Surveying d. Ranging
- 4..... Instrument used for marking survey station
a. Pegs b. Chain c. Tape d. Arrow
5. Instrument used for setting right angles.
a. Cross staff b. Chain c. Tape d. Arrow
6. Which survey, the earth's surface is considered as a plane.
a. Plane surveying b. Land surveying c. Agricultural survey d. Geodetic survey
7. 1 acre =.....
a. 10 square Guntur's chain b. 15 square Guntur's chain
c. 5 square Guntur's chain d. 20 square Guntur's chain
8. is commonly used for measuring fields in cadastral survey
a. Revenue chain b. Engineer's chain
c. Guntur's chain d. Metric chain
9. It is art of determining the relative heights
a. Surveying b. Leveling c. Chaining d. Ranging
10. It is art of determination of horizontal distance.
a. Surveying b. Leveling c. Chaining d. Ranging

Q. 2 Answer any 4 questions. Each question carries 5 marks. (4*5=20 Marks)

1. Classification of heat engines
2. Explain agricultural survey and write uses of survey.
3. Explain types of chain.
4. Explain geodetic and plane surveying.
5. Write difference between four stroke engine and two stroke engine

Q.3 Answer any 1 question. Each question carries 10 marks. (1*10=10 Marks)

1. Explain four stroke cycle engine with diagram
2. Explain Leveling with its instruments