

Hemchandracharya North Gujarat University
Community College

Advanced Diploma in agriculture and Soil sciences

Sem III End term Examination , 2018

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

Time : 2 Hours

Date: 11/12/2018

Marks: 40

Q.1 : Answer all questions. Each question carries 1 mark.

(10*1= 10 Marks)

1. 10 Gunter's chains =
(a) 1 Furlong (b) 2 Furlong (c) 3 Furlong (d) 4 Furlong
2. Instrument used for setting right angles
(a) Tape (b) Arrow (c) Chain (d) Cross staff
3. is commonly used for measuring fields in cadastral survey
(a) Revenue chain (b) Engineer's chain (c) Guntur's chain (d) Metric chain
4. It is art of determining the relative heights
(a) Surveying (b) Levelling (c) Chaining (d) Ranging
5. Geodetic surveying is also known as _____ surveying.
(a) Plane (b) Trigonometrical (c) Agricultural (d) land
6. 1 hectare = _____ M²
(a) 10 (b) 100 (c) 1000 (d) 10000
7. Spark plug is used in which type of engine?
(a) Petrol engine (b) Diesel engine (c) Steam engine (d) Boiler
8. Which is a renewable energy source?
(a) Solar energy (b) Nuclear energy (c) Thermal energy (d) none of this
9. The length of Gunter's chain is _____ Feet.
(a) 6 (b) 0.6 (c) 66 (d) 6.6
10. Which of the following is a link between piston and crank?
(a) Crank Shaft (b) connecting rod (c) piston pin (d) gudgeon pin

Q.2 : Answer any 4 questions. Each question carries 5 marks.

(4*5 = 20 Marks)

1. Explain type of chain.
2. Classification of heat engines.
3. Explain geodetic and plane surveying.
4. Write down the problems of coal mining.
5. Difference between four stroke and two stroke I.C. engine.

Q.3: Answer any 1 question. Each question carries 10 marks.

(1*10 = 10 marks)

1. Explain levelling with its instruments.
2. Explain fixed dom plant in detail with diagram.