

Hemchandracharya North Gujarat University
Community College
Advanced Diploma in Agriculture and Soil sciences
Sem III End Term Examination, December, 2016

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

Time: 2 hrs

Date:20/12/2016

Maximum marks: 40

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

- (1) Geodetic surveying is also known as _____ surveying .
(a) Plane (b) Trigonometrical (c) Agricultural (d) land
- (2) 1 hectare = _____ m²
(a) 10 (b) 100 (c) 1000 (d) 10000
- (3) In which survey, the earth's surface is considered as a plane.
(a) Plane surveying (b) Geodetic survey
(c) Agricultural survey (d) Land surveying
- (4) Spark plug is used in which type of engine?
(a) Petrol engine (b) Diesel engine (c) Steam engine (d) Boiler
- (5) A four stroke engine has
(a) Inlet & exhaust ports (b) Inlet & exhaust valves
(c) Transfer port (d) All of the above
- (6) Distance of objects on drawing is 1 cm and corresponding actual distance of objects on ground is 10 m then find out the representative fraction. (1m = 100 cm)
(a) 1:10 (b) 1:100 (c) 1:1000 (d) 1:10000
- (7) which is a renewable energy source?
(a) solar energy (b) Nuclear energy (c) Thermal energy (d) none of this
- (8) The length of Gunter's chain is _____ Feet.
(a) 6 (b) 0.6 (c) 66 (d) 6.6
- (9) Which of the following is a link between piston and crank?
(a) Crank shaft (b) connecting rod (c) piston pin (d) gudgeon pin
- (10) In a four stroke cycle engine, one cycle is completed in the following number of revolutions of crank shaft?
(a) 1 (b) 2 (c) 3 (d) 4

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

- (1) Define heat engines. Give classification of heat engine in detail.
- (2) Define surveying. Give classification of surveying in detail.
- (3) Write down the problems of coal mining.
- (4) Differentiate between four stroke and two stroke I.C. engine.
- (5) Write the objective & uses of surveying. Explain metric chain in detail.

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

- (1) Explain in brief: working of four stroke cycle engine with diagram.
- (2) Explain fixed dom plant in detail with diagram.