

P P SAVANI UNIVERSITY

Second Semester of B.Sc. (Hons.) Agriculture End Semester Examination
December - 2022

SGAG 1020-Fundamentals of Agronomy

12.12.2022, Monday

Time: 10:00 a.m. to 12:00 p.m.

Maximum Marks: 50

Instruction:

1. Draw a neat and labeled diagram whenever it is required.
2. Start new questions from new page.

Q.1 Multiple choice questions (01mark each)	(15)	CO	BTL
1.1 Tillage upto 15-20 cm depth is known as ____ tillage.		3	1
a. Medium			
b. Deep			
c. Shallow			
d. Both A and B			
1.2 Depth of sowing depends on ____.		2	2
a. Seed quality			
b. Seed coat			
c. Seed colour			
d. Seed size			
1.3 Tillage operation carried out before sowing the crop is known as ____.		3	1
a. Interculturing			
b. Off season tillage			
c. Secondary tillage			
d. Preparatory tillage			
1.4 Tillage upto 25-30 cm depth is known as ____ tillage.		3	1
a. Shallow			
b. Deep			
c. Medium			
d. Both A and B			
1.5 Sugarcane is planted in ____.		1	1
a. Broad bed			
b. Furrow and Trench			
c. Flat Bed			
d. Setline			
1.6 ____ creates an impervious layer below the surface to reduce deep percolation of water.		3	2
a. Puddling			
b. Harrowing			
c. Dry tillage			
d. Inter-cultivation			
1.7 Broad bed furrows recommended by ____.		1	3
a. SBI			
b. ICRISAT			
c. NBPGR			
d. None of these			
1.8 ____ seed is sold to the farmers for sowing purpose.		1	2
a. Foundation			
b. Certified			
c. Breeder			
d. Registered			
1.9 DAP contain NPK% ____.		1	4
a. 18-46-00			
b. 46-00-00			
c. 00-00-60			
d. 00-18-46			

- 1.10 The word tillage is derived from _____ . 3 2
- a. Anglo- Saxon c. Arabian
b. Saxon-Anglo d. None of these
- 1.11 Physical condition of soil by tillage is _____ . 3 2
- a. Preparatory tillage c. Zero tillage
b. Tilt d. Minimum tillage
- 1.12 Which are the Secondary nutrient? 1 2
- a. N, P and K c. Mo, Co and Zn
b. Ca, Mg and S d. Mn, Fe and B
- 1.13 Examples of pulses crops? 1 2
- a. Rice and Maize c. Chickpea and Indian bean
b. Cotton and Castor d. Groundnut and Niger
- 1.14 Examples of green manure crops? 4 1
- a. Sun hemp, Guar and Dhaincha c. Sun hemp, Cowpea and Dhaincha
b. Sun hemp, Chickpea and cotton d. A and C both
- 1.15 Tillage operation carryout by only crop row area is _____ . 3 1
- a. Zero tillage c. Preparatory tillage
b. Minimum tillage d. A and B both

Q.2 Define/ Explain (Attempt any six- 01 marks each)

(06)

- 2.1 Tillage 3 1
- 2.2 Zero tillage 3 1
- 2.3 Year round tillage 3 1
- 2.4 Plant geometry 1 1
- 2.5 Skip row 1 1
- 2.6 Plant density 1 1

Q.3 True/False (01 mark each)

(05)

- 3.1 Removal of excess plant in field crop area is called Thinning. 1 1
- 3.2 Artificial application of water to the field is knows irrigation. 3 1
- 3.3 Urea contain NPK 18-46-00 %. 1 1
- 3.4 Shap of the plant is knows crop geometry. 1 1
- 3.5 The essentials nutrients are needed in larger amounts than others are called macronutrient. 1 1

Q.4 Short notes (Attempt any six- 02 marks each)	(12)	
4.1 Classification of tillage	3	4
4.2 Dry matter partitioning?	1	2
4.3 Enlist bulky organic manures	2	1
4.4 Criteria of essentiality?	1	2
4.5 Characteristics of good seed bed?	1	2
4.6 Differences between Cropping pattern and Cropping system	4	2
4.7 Intercropping Vs Mixed cropping	4	2
4.8 Explain type of sowing?	2	2
Q.5 Answer the following questions in detail (Attempt any three- 04 marks each)	(12)	
5.1 Describe Land Configuration Techniques??	1	2
5.2 Explain Method of sowing?	1	2
5.3 Explain different method for application of fertilizers?	2	2
5.4 What is green manuring? Type of green manuring & examples of green manure crops?	4	2
5.5 Explain Classification of seeds?	2	2

CO : Course Outcome Number

BTL : Blooms Taxonomy Level

Level of Bloom's Revised Taxonomy in Assessment

1: Remember	2: Understand	3: Apply
4: Analyze	5: Evaluate	6: Create