

**PARUL UNIVERSITY**  
**COLLEGE OF AGRICULTURE**  
**B.Sc. (Hons.) Agriculture Winter Examination**

Semester: 3<sup>rd</sup>

Subject Code: 20101203

Subject Name: Crop Production Technology – I (*Kharif* crops)

Date: 28-11-2023

Time: 10:30am to 1:00pm

Total Marks: 50

**Instructions**

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

Q.1			CO	PO	Blo om' s Tax ono my
	<b>Do as Directed.</b>				
<b>(A)</b>	<b>Fill in the blanks. (Each of 0.5 mark)</b>	<b>(05)</b>			
1	The most favored crop for preservation in the form of silage is _____				L1
2	The family of cotton is _____		2	3	L2
3	The art of making cloth from cotton was developed in _____		1	2	L2
4	The second most important Indian pulse crop is _____		4	1	L1
5	The Indian Pulse Research Institute is located at _____		3	4	L1
6	Pulse seeds should be inoculated with the culture of _____		1	1	L2
7	The most important oilseed crop in India is _____		3	1	L1
8	Cereals belongs to family _____		2	3	L2
9	Pulses belongs to the family _____		1	2	L2
10	The scientific name of black gram is _____		3	4	L1
<b>(B)</b>	<b>Multiple choice type questions. (Each of 0.5 mark)</b>	<b>(1)</b>			
1	Dapog method of raising rice nursery was introduced in India from _____		3	3	L3
	a) Phillipines				
	c) Nepal				
	b) Japan				
	d) USA				
2	Which of the following is water loving crop?		1	2	L1
	a) Pearl millet				
	c) Sorghum				
	b) Groundnut				
	d) Paddy				
3	Guj. Kodra 1 is the variety of _____		2	4	L2
	a) Proso millet				
	c) Kodo millet				
	b) Great millet				
	d) Pearl millet				
4	Red gram is also known as _____		4	5	L2
	a) Green gram				
	c) Gram				
	b) Sorghum				
	d) Pigeon pea				
5	The second name of urid bean is _____		3	6	L1
	a) Arhar				
	c) Black gram				
	b) Green gram				
	d) Soybean				
6	Protein content in soybean seeds is _____		2	2	L3
	a) 40 %				
	c) 10 %				
	b) 20 %				
	d) 30 %				
7	Oil content in soybean seeds is _____		1	4	L3
	a) 40 %				
	c) 10 %				
	b) 20 %				
	d) 30 %				
8	National Research Centre for Groundnut (NRCG) is located at _____		4	2	L2
	a) Anand				
	c) Junagadh				
	b) S. K. Nagar				
	d) Navsari				
9	The gynophore in ground nut is commonly referred as _____		2	1	L3
	a) Capsule				
	c) Peg				
	b) Pod				
	d) Branch				

10	Castor belongs to family		1	2	L1
	a) Tiliaceae	c) Cruciferae			
	b) Euphorbiaceae	d) Leguminosae			
11	Castor seeds has poisonous alkaloid		2	3	L3
	a) Oxalin	c) Saponin			
	b) HCN	d) Ricin			
12	Cotton seeds has poisonous alkaloid		4	6	L1
	a) Saponin	c) HCN			
	b) Oxalin	d) Gossypol			
13	Cotton is known as		3	2	L2
	a) Green gold	c) Yellow gold			
	b) Pink gold	d) White gold			
14	Major constituents of cotton fiber is		1	1	L3
	a) Fat	c) Lignin			
	b) Cellulose	d) Protein			
15	Seed treatment is practiced to control		4	3	L3
	a) Soil borne disease	c) Air borne disease			
	b) Seed borne disease	d) None of the above			
16	The king of green manure crops is		3	2	L1
	a) Sun hemp	c) Cluster bean			
	b) Cowpea	d) Dhaincha			
17	Young plant of Sorghum contains poisonous substance		3	1	L2
	a) Oxalin	c) Saponin			
	b) HCN	d) Ricin			
18	Indian grass and fodder research institute is located at		2	2	L3
	a) Delhi	c) Kanpur			
	b) Lucknow	d) Jhansi			
19	African tall is a fodder purpose variety of		1	2	L1
	a) Maize	c) Pearl millet			
	b) Sorghum	d) Cowpea			
20	Napier grass is locally known as		2	1	L1
	a) Marvel grass	c) Bermuda grass			
	b) Elephant grass	d) Anjan grass			
<b>Q.2</b>	<b>Do as Directed.</b>				
<b>(A)</b>	<b>Define the following. (Any five out of seven)</b>	<b>(05)</b>			
1	Agronomy		1	4	L4
2	Seed		2	2	L1
3	Cash crop		1	6	L2
4	Green manuring		2	3	L1
5	Thinning		2	4	L1
6	Irrigation.		1	1	L2
7	Sole cropping		1	3	L2
<b>(B)</b>	<b>Answer the following. (Any five out of seven)</b>	<b>(05)</b>			
1	Enlist different methods of rice nursery preparation		2	3	L1
2	Make a list of six different types of maize		3	2	L2
3	What do you mean by the term “relay cropping” ?		1	1	L2
4	Explain the term “weed”		4	1	L2
5	Write uses of pigeon pea in brief		2	3	L2
6	What are maturity symptoms of maize		3	2	L3
7	Write seed rate of (1) transplanted rice and (2) direct seeded rice		4	1	L2
<b>Q.3</b>	<b>Write short notes. (Any five out of six)</b>	<b>(10)</b>			
1	Benefits of green manuring		1	3	L3
2	Golden rice		1	2	L2
3	Climatic requirement of sorghum crop		2	1	L3
4	Write the process of rhizobium biofertilizer seed treatment in pulses and give its benefits		4	5	L3
5	Write the difference between pulses and legumes		3	2	L3
6	Give economic importance of groundnut		2	6	L2
<b>Q.4</b>	<b>Long Questions/Example (Attempt any three out of four)</b>	<b>(15)</b>			

1	Differentiate direct seeded rice and transplanted rice		2	3	L3
2	Give reasons for low productivity of pulse crops in India		4	1	L3
3	Write in detail about system of rice intensification (SRI)		3	2	L2
4	Write the importance of pulses		2	1	L2

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