



**GIET UNIVERSITY, GUNUPUR - 765022**

B. Sc. (Ag.) (Third Semester) Regular Examinations, January - 2024

## AG-214 - Crop Production Technology-I (Kharif Crops)

Time: 2 hrs

Maximum : 50 Marks

**The figures in the right hand margin indicate marks.**

**PART – A**

**Q.1. Fill in the blanks with suitable word / figure.**

**(0.5 x 10 = 5 Marks)**

- One bale of cotton is equal to.....kg of lint.
- is the scientific name of pearl millet.
- Yellow revolution is promotion for production of .....
- Rhizobium* species used for soybean seed treatment is .....
- ..... gas is released from paddy field.
- Scientific name of sesame .....
- “Khaira” disease in rice is due to deficiency of .....
- An annual weed commonly found in rice field is .....
- Seed rate for fodder maize ..... kg/ha.
- Alkaloid found in sorghum .....

**Q. 2. Define (or) Explain the following in one or two sentences.**

**(1 x 5 = 5 Marks)**

- Retting in jute
- Vegetative lag phase
- Ginning percentage
- Green manuring in rice
- Beushening

**Q3. Match the following**

**(0.5 x 10 = 5 Marks)**

Column – A		Column – B	
(a)	Tossa jute	(i)	Capsule
(b)	Cotton	(ii)	<i>Zea mays var indurata</i>
(c)	Soybean	(iii)	<i>Corchorus olitorius</i>
(d)	Sorghum	(iv)	Panicle
(e)	Sesamum	(v)	<i>Corchorus capsularis</i>
(f)	Flint corn	(vi)	Bragg
(g)	Bitter jute	(vii)	Square
(h)	Pop corn	(viii)	AK12-24
(i)	Pigeon Pea	(ix)	<i>Zea mays var everta</i>
(j)	Groundnut	(x)	UPAS-120

**Q4. Write True or False against each statement**

**(0.5 x 10 = 5 Marks)**

- a. One bale of jute is equal to 180 kg.
- b. Napier grass does not produce viable seeds, hence it is propagated by vegetative means.
- c. Indian Grassland and Fodder Research Institute (IGFRI) is situated in Madhya Pradesh.
- d. Castor is belonging to the family Pedaliaceae.
- e. *C. capsularis* and *C. olitorius* are species of mesta.
- f. Indian Grassland and Fodder Research Institute (IGFRI) is situated in Madhya Pradesh.
- g. Napier grass does not produce viable seeds, hence it is propagated by vegetative means.
- h. Paddy crop prefers nitrogen in nitrate form.
- i. Area required for preparing nursery for 1 ha paddy crop 0.05ha.
- j. Dhurrin is synthesized from roots of sorghum.

**PART – B**

**Attempt ANY FIVE questions. All question carries equal marks**

**(6 x 5 = 30 Marks)**

5. What is topping? Write down nutrient and water management in cotton.
6. What is retting? Write down the difference between *Corchorus olitorius* and *Corchorus capsularis*.
7. Give a brief description of nutrient and water management in groundnut.
8. What is brown manuring? Write down the nutrient management in rice.
9. Write down the production technology of arhar.
10. Write down the classification of maize based on endosperm characters.

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