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**GANDHI INSTITUTE OF ENGINEERING AND TECHNOLOGY,  
ODISHA, GUNUPUR  
(GIET UNIVERSITY)**

B. Sc. (Ag.) (Third Semester) Examinations, November 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)**

- a. Botanical name of flint corn is .....
- b. NRRI is located at .....
- c. Dhurrin is synthesized from .....
- d. *Rhizobium* species used for garden pea seed treatment is .....
- e. Transgenic crop cultivated high area in world is .....
- f. Crop is used as fodder and grain .....
- g. Aflatoxin contamination generally found in .....
- h. Crop is used as pulse and oil purpose .....
- i. Seed rate for bunch type groundnut ..... kg/ha.
- j. Which is a parasitic weed in niger crop .....

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

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

- a. Ginning percentage
- b. Shelling percentage
- c. SRI
- d. Hulling Percentage
- e. Threshing

**Q3. Match the following**

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

**Column – A**

**Column – B**

- |                     |                                      |
|---------------------|--------------------------------------|
| (a) Soybean         | (i) <i>Setaria italica</i>           |
| (b) Rice            | (ii) HB-1                            |
| (c) Maize           | (iii) <i>Echinochloa frumentacea</i> |
| (d) Foxtail millet  | (iv) SR-26B                          |
| (e) Barnyard millet | (v) Protina                          |
| (f) Groundnut       | (vi) <i>Paspalum scrobiculatum</i>   |
| (g) Kodo millet     | (vii) Ankur, Bragg                   |
| (h) Arhar           | (viii) Smruti                        |
| (i) Bajra           | (ix) ICPH-8                          |
| (j) Sorghum         | (x) CSH1                             |

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

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

- a. *Corchorus capsularis* is known as white jute.
- b. Clay loam soil is most suitable for groundnut cultivation.
- c. Commonly used herbicide in sorghum field is atrazine
- d. Cotton is popularly known as white gold.
- e. Loss of ammoniacal form of N fertilizers can be minimized by placing it in oxidized zone.
- f. Maize is a self pollinated crop .
- g. Commonly used herbicide in sorghum field is atrazine.
- h. One bale of jute is equal 180 kg.
- i. Napier grass does not produce viable seeds, hence it is propagated by vegetative means.
- j. Panicle initiation(PI) stage is the moisture sensitive stage of sorghum

**PART – B**

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

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

- 5. Describe the economic importance of soybean.
- 6. Write down different uses of oil seed and constraints of oil seed production in India.
- 7. List down different types of nursery preparation in rice. Briefly discuss about wet bed method of nursery preparation.
- 8. Write down the different strategies to improve the nitrogen use efficiency for rice crop.
- 9. Give a brief description on pulse production scenario in India. How can the pulse production be increased.
- 10. Write down the production technology of green gram.

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