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

**B. Sc. (Ag.) (Fourth Semester) Examinations, April – 2025  
AG-225 – Crop Production Technology – II (Rabi 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. Flowering in sugarcane is known as \_\_\_\_\_
- b. Sugar beet belongs to family \_\_\_\_\_
- c. \_\_\_\_\_ country is known as sugar bowl of the world as it is the largest sugar exporter in the world.
- d. Anti-nutritional factors present in Mustard are \_\_\_\_\_
- e. \_\_\_\_\_ is an example of sugarcane ripener.
- f. Seed rate of French bean is \_\_\_\_\_
- g. Botanically sunflower seed is known as \_\_\_\_\_
- h. Major weed of Berseem crop is \_\_\_\_\_
- i. Kent and Algerian are the varieties of \_\_\_\_\_ crop.
- j. Indian Institute of Sugarcane Research is located at \_\_\_\_\_

**Q. 2. Define (or) Explain the following in one or two sentences.****(1 x 5 = 5 Marks)**

- a. PUFA in sunflower
- b. Canola mustard
- c. Propping
- d. Topping
- e. Pressmud

**Q3. Match the following****(0.5 x 10 = 5 Marks)**

	Column – A	Column – B
(a)	Rabbing	(i) Macaroni wheat
(b)	<i>Hordeum vulgare</i>	(ii) Safflower
(c)	<i>Triticum dicoccum</i>	(iii) Spike
(d)	<i>Hordeum distichum</i>	(iv) French bean
(e)	<i>Triticum durum</i>	(v) Chickpea
(f)	King of pulses	(vi) 6 row barley
(g)	Perennial fodder crop	(vii) Emmer Wheat
(h)	Carthamin	(viii) 2 row barley
(i)	Non-N fixing legume	(ix) Tobacco
(j)	Inflorescence of Barley	(x) Lucerne

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

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

- a. Specific Rhizobium culture of pea crop is *R. meliloti*.
- b. Complete stem parasite that associated with Tobacco crop is Orabanche.
- c. Of the two species of tobacco, *Nicotiana tabacum* is shorter than *N. rustica*.
- d. Barley is useful for making malt and have a great demand in malting industry.
- e. Granular hairs of leaves and pods of chickpea contains citric and oxalic acid.
- f. Andhra Pradesh is known as pulse bowl of India.
- g. Carthamin is an orange red colour dye that can be extracted from safflower florets.
- h. Thinning is must in sugar beet crop at 30 DAS as the seed is a multigerm or glomerule.
- i. Linseed also known as flax is one of the oldest cultivated crops with oil and fibre use.
- j. Lucerne is known as king of fodder crops.

**PART – B**

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

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

5. Write the classification and morphological difference between Rapeseed and Mustard.
6. What is priming, curing and desuckering in tobacco? Explain about the different types of curing in Tobacco?
7. Write about crop production technology or package of practices of Linseed crop.
8. Write about growth stages of wheat? Explain about weed, nutrient and water management in wheat.
9. What are the different planting material of sugarcane? Write about the climatic requirement, time of planting and nutrient management in Sugarcane.
10. Write about crop production technology or package of practices of French bean crop.

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