



**KERALA AGRICULTURAL UNIVERSITY**  
**B.Tech. (Food Technology) 2022 Admission**  
**IV Semester Final Examination – July 2024**

Pafe.2218

**Processing Technology of Legumes and Oilseeds (2+1)**

**Marks: 50**  
**Time: 2 hours**

**I Fill in the blanks**

**(10x1=10)**

1. The protein and oil contents of groundnut are \_\_\_\_\_ and \_\_\_\_\_, respectively.
2. Cowpea belongs to \_\_\_\_\_ protein \_\_\_\_\_ oil group.
3. Soybean fixes atmospheric nitrogen in soil through bacteria \_\_\_\_\_.
4. Two value added products of groundnut are \_\_\_\_\_ and \_\_\_\_\_.
5. \_\_\_\_\_ revolution is related to oilseeds. The family of pulses is \_\_\_\_\_.
6. The appearance of oil can be lightened by \_\_\_\_\_ process. Aflatoxin contamination is found in \_\_\_\_\_ seeds.
7. RBD oil indicates \_\_\_\_\_, bleached and \_\_\_\_\_ oil.
8. For quick cooking of pulses, \_\_\_\_\_ milling process is recommended. *Cajanus cajan* is the scientific name of \_\_\_\_\_ pulse.
9. Legume seeds contain seed coat, \_\_\_\_\_ and \_\_\_\_\_.
10. \_\_\_\_\_ is the step of converting the free fatty acids in crude oils to soaps, which is also known as \_\_\_\_\_.

**II Write short notes on ANY FIVE of the following**

**(5x2=10)**

1. Classify edible oilseeds based on their main growing seasons.
2. Define buff polishing.
3. Write 4 value added products each of pulses and oilseeds.
4. What are the two stages followed in direct solvent extraction process of groundnut?
5. Write a short note on the bleaching process.
6. What do you mean by pitting process?
7. Write a short note on chill fractionation.

**III Answer ANY FIVE of the following**

**(5x4=20)**

1. Write down the factors affecting the cooking of dal.
2. What are the needs of dry and wet milling processes in pulses?
3. Write short notes on tofu and soy yoghurt.
4. Describe the different polishing processes of pulses.
5. Highlight the uses of sunflower.
6. Write a short note on the hydrogenation process.
7. Write short notes on production of besan and papad from pulses.

**IV Write an essay on ANY ONE of the following**

**(1x10=10)**

1. Why are oilseed prices increasing in the market? Describe soy protein isolates and concentrates.
2. Show the flow charts of vegetable oil extraction and processing.

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