

Register No.:

274

April 2024

Time – Three hours
(Maximum Marks: 100)

- [N.B. 1. Answer all questions under Part-A. Each question carries 3 marks.
2. Answer all the questions either (A) or (B) in Part-B. Each question carries 14 marks.]

PART – A

1. What is grain?
2. List out the methods to determine EMC.
3. List down the factors influencing drying rate.
4. List the disadvantages of rotary dryer.
5. Write any three advantages of parboiling.
6. What is sodium chromate method?
7. List various milling processes.
8. Write the advantages of polishing.
9. Define oils, fats and waxes.
10. List any three uses of defatted bran.

[Turn over.....

PART - B

11. (a) Explain the structure of grain with suitable examples.

(Or)

(b) Determine the equilibrium moisture content of Ragi at RH = 35% and t = 38°C using Henderson's equation where $c = 6.25 \times 10^{-6}$ and $n = 2.29$.

12. (a) Explain about thin layer drying. State its limitations.

(Or)

(b) Explain the construction and working of Baffle type dryer with neat sketch.

13. (a) Explain about the principles of parboiling.

(Or)

(b) Explain about the pressure parboiling.

14. (a) Explain the different types of separators.

(Or)

(b) Explain the construction and working of horizontal abrasive rice whitener with simple sketch.

15. (a) Explain the mechanical extraction and refining of cotton seed oil with neat flow chart.

(Or)

(b) Write the uses of bran, bran oil and its various constituents.
