

Maharashtra Institute of Technology, Aurangabad

(An Autonomous Institute)

END SEMESTER EXAMINATION

Second Year B.Tech (Agricultural Engineering) – Feb/Mar-2023

Course Code: AED202

Course Name: Unit Operation in Agriculture Processing

Duration: 2 Hrs

Max. Marks: 50

Date:

06 FEB 2023

Instructions:

- All questions are compulsory
- Assume suitable data wherever necessary and clearly state it
- Figures to right indicate full marks

Q. 1	Answer any five(Marks:10)	Marks	CO	BL	PI
a)	Define drying and dehydration?	2	1	1	
b)	Define sedimentation and filtration?	2	1	1	
c)	Define and explain about moisture content?	2	1	1	
d)	Enlist thermal properties of product?	2	2	2	
e)	Define thermal conductivity and thermal diffusion?	2	1	2	
f)	What is static method?	2	2	2	
g)	What is dynamic method?	2	2	2	
h)	Define impact and compressive force?	2	2	2	
Q.2	Define and explain edge runner mill in detail with schematic diagram?	8	3	4	
Q.3	Explain working and principle of baffle dryer with schematic diagram?	8	4	4	
Q.4	Explain in detail principle and mechanism of size reduction?	8	3	3	
Q.5	Explain in detail principle and mechanism of plate frame filtration with schematic diagram? OR (optional) Explain in detail principle and mechanism of tumbling mill or ball mill with schematic diagram?	8	4	4	
Q.6	Explain in detail physical properties of grains? OR (optional) Explain in detail principle and mechanism of Gyrotory screening with schematic diagram?	8	4	3	