Seat No: \_\_\_\_\_

Enrollment No: \_\_\_\_\_

## PARUL UNIVERSITY FACULTY OF ENGINEERING & TECHNOLOGY B.Tech. Summer 2018-19 Examination

Semester: 6 Subject Code: 03110354	Date: 04/05/2019 Time: 10:30am To 01:00pm
Subject Name: Drying and Storage Engineering	Total Marks: 60
Instructions:	
1. All questions are compulsory.	
2. Figures to the right indicate full marks.	
3. Make suitable assumptions wherever necessary.	
4. Start new question on new page.	
<b>0.1 Objective Type Questions</b> - (Fill in the blanks, one word an	nswer, MCQ-not more than (1
Five in case of MCQ) (All are compulsory) (Each of one mathematication of the second s	ark)
1. Constant drying conditions include?	
(a)Temperature constant	
(b) Humidity constant	
(c)Velocity constant	
(d)All of above	
2. Find the weight of the wet solid if dry solid is 2 kg and the	e moisture is 0.5 kg?
(a)2.0	-
(b) 2.5	
(c)3.0	
(d)3.5	
3. Which of the following are important parameters for seed	storge?
(a)Temperate	C .
(b) Relative humidity	
(c)Moister content	
(d)All of above	
4. In deep bed drying the height of grains cm.	
(a)=15	
(b) <15	
(c)>15	
(d)None of above	
5. Drying of grain is normally a processes of	
(a) Heat transfer	
(b) Heat and mass transfer	
(c) Only mass transfer	
(d) None of the above	
6.What is CAP storage?	
7.Write types of dryers?	
8. Which dryer is suitable for rice?	
9.Cabinet/ Tray driers are direct driers?(True/False)	
10.Kothar type grain storage structure is made up of mainly.	
11. Define EMC?	
12.Unit of moisture content?	
13. Which storage structure is used for short duration tempora	ary storage of grain
14.Bukhari type grain storage structure, used in the rural Indi	
15.Psychrometer is used for	

Q.2	Answer the following questions. (Attempt any three)	(15)
-	A)Explain equilibrium moisture content (EMC).	
	B)Write short note on advantage of drying.	
	C)Write short note on advantage of storage structures.	
	D)State the difference between brick and cement bin storage structures?	
Q.3	A) Write short note on tray dryer.	(07)
-	B) Write short note on LSU dryer.	(08)
	OR	
	B) Write short note on continues flow dryer (mixing and non mixing).	(08)
Q.4	A) Write short note on flat bed dryer.	(07)
-	OR	
	A) Write type of traditional storage structures of rural areas. Explain any one in brief?	(07)
	B) Write short note on pusa bin(with diagram).	(08)