

ASSIGNMENT SET - IV

Department of Nutrition

Mugberia Gangadhar Mahavidyalaya



Subject- Food Processing Semester-IV

Paper Code: BVFPS404

[Food Plant Utilities and Services]

Answer all the questions

Unit-1

1. Define food plant utilities? 2
2. Define commercial energy pricing? 2
3. Write a short note on classification of various utilities and services in food industry. 5

Unit-2

1. Define electricity billing? 2
2. Write three key elements of electricity bill. 5
3. What is the voltage?2
4. What do you mean system distribution losses? 3
5. Write short note on electrical transformer. 5

Unit -3

1. Write a short note about how to improve motor performances. 4
2. What types of issues can observe during motor replacement? 4
3. Write a short note on factors effecting motor performances. 5

Unit-4

1. What do you mean compressor efficiency? 2
2. What do you mean leakage test? 3
3. Write a short note on components of compressed air system. 4
4. Write a short note on factors effecting the performance and efficiency of compressed air system. 5

Unit -5

1. What do you mean HV AC? 2
2. Write short note on vapor compression refrigeration cycle. 3
3. What do you mean refrigerants? 3
4. Briefly describe factors effecting refrigeration. 5
5. Define VCR system. 2

Unit- 6

1. Define fan and blower types. 3
2. Write a short note on performance evaluation. 4

3. Write a short on flow control strategies of fan and blowers. 4

Unit-7

1. What do you mean efficient system operation? 2
2. What are the requirements of pumping system? 3
3. Define energy conservation opportunities. 3

Unit-8

1. Write a short note on factors effecting selection of DG system. 5
2. What is the function of DG system? 3

Unit-9

1. What is the difference between solid fuel and liquid fuel? 4
2. Briefly describe the properties of –
 - Fuel oil
 - Gas 4
3. Briefly describe the classification of liquid fuels. 10

Unit-10

1. What do you mean water tube boiler and fire tube boiler? 3
2. Write a short note on Indian boiler regulation. 3
3. Briefly describe types of boiler. 5
4. What do you mean energy conservation? 2

Unit-11

1. Write short note on steam leakage. 4
2. What do you mean distribution losses? 2
3. Define flash steam recovery system. 3

Unit-12

1. Write a short note on commercially viable waste heat recovery. 5
2. Define saving potential. 2
3. What are the advantages and application waste heat recovery? 4

Unit-13

1. Define fire extinguisher. 2
2. What are the importance of drainage system? 4
3. What do you mean waste water? 2
4. What do you mean dust removal? 2
5. Write a short note on CIP system. 5