

ASSIGNMENT SET - V
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. What do you mean food plant utilities and services? 2
2. Write a short note on classification of various utilities and services in food industry. 5

Unit-2

1. What do you mean electricity? 2
2. Write five key elements of electricity bill. 5
3. Define power factor improvement. 3
4. Write short note on electrical transformer. 5
5. What do you mean system distribution losses? 2

Unit -3

1. What do you mean motor efficiency? 2
2. Write a short note on factors effecting motor performances. 5
3. What types of issues can observe during motor replacement? 4

Unit-4

1. What are the requirements of compressed air system? 3
2. Write a short note on components of compressed air system. 4
3. What do you mean capacity assessment? 2
4. Write a short note on factors effecting the performance and efficiency of compressed air system. 5

Unit -5

1. What are the requirements of refrigeration system? 3
2. What do you mean refrigerants? 3
3. Briefly describe factors effecting refrigeration. 5
4. Write a short note on working principle of vapour absorption refrigeration system. 5
5. Define VCR system. 2

Unit- 6

1. What are the importance of fan and blowers in food plant industry? 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. Write a short on flow control strategies of pumping system. 4
2. Write a short note on performance evaluation. 4
3. Define energy conservation opportunities. 3

Unit-8

1. What do you mean DG system? 2
2. Write a short note on factors effecting selection of DG system. 5

Unit-9

1. Briefly describe the properties of –
 - Coal
 - Gas4
2. Briefly describe the classification of fuels. 10
3. Define artificially prepared coal. 2

Unit-10

1. Define boiler specification. 3
2. Briefly describe types of boiler. 5
3. Write a short note on feed water treatment. 3
4. What do you mean energy conservation? 2

Unit-11

1. Define flash steam recovery system. 3
2. Define various properties of steam. 4
3. Write short note on Steam trapping and steam leakage. 5

Unit-12

1. What do you mean waste heat recovery? 2
2. What are the advantages and application waste heat recovery? 4
3. Write a short note on commercially viable waste heat recovery. 5

Unit-13

1. Define lighting in food industry. 3
2. What are the importance of drainage system? 4
3. What do you mean dust removal? 2
4. What do you mean waste water? 2