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PG3S-415-A-23
M.Sc.III Semester Degree Examination
SUGAR TECHNOLOGY
Paper:Co-Generation and By Product
Paper - OET.3.1

Time : 3 Hours

Maximum Marks :80

Instructions to Candidates:

- 1) **First question is Compulsory.**
- 2) **Answer any FOUR questions in the remaining.**

1. **Answer any Eight questions,** **(8×2=16)**
 - a) Define Steam Generation.
 - b) What are the constituents of flue gas.
 - c) Define Calorific Value of Bagasse.
 - d) List the liquid effluents in sugar factory.
 - e) How the moisture % bagasse determined.
 - f) What are the common internal treatments of boiler F.W.
 - g) Write the function of Air heater.
 - h) How to find out moisture % bagasse.
 - i) Define degree of Brix.
 - j) What are the by products of sugar industry.
2.
 - a) Describe the importance of Boiler water treatment **(10)**
 - b) Write a note on effects of impurities on Feed water **(6)**
3.
 - a) Explain the function of boiler with sketch **(10)**
 - b) Write a note on Principal properties of steam **(6)**

4. a) Explain the process of Aerobic Treatment of Factory effluent (10)
b) Write a note on neat recovery units (6)
5. a) Describe the uses of molasses for manufacture in rectified spirit (10)
b) Write a note on Press mud used as fertilizer. (6)
6. a) Describe the laboratory methods of Cane and Juice analysis (10)
b) Write in brief the use of Polarimeter in sugar analysis. (6)
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