


GOVERNMENT COLLEGE OF ENGINEERING, JALGAON

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 Name of Examination : **Winter 2020** - (Preview)

 Course Code & Course Name : **ME303UY - Open Elective-I-Power Station Engineering**

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 Maximum Marks : **60**

 Duration : **3 Hrs**

 Edit Print View Answer Key Close **Answer Key Submission Type:** Marking scheme with model answers and solutions of numerical

Instructions:

1. All questions are compulsory.
2. Illustrate your answer with suitable figures/sketches wherever necessary.
3. Assume suitable additional data; if required.
4. Use of logarithmic table, drawing instruments and non programmable calculators is allowed.
5. Figures to the right indicate full marks.

1) Answer any 2 (two) of the following.

- 1) Explain Fluidized Bed Combustion system with neat sketch. [6]
- 2) Explain diesel power plant with neat line diagram. [6]
- 3) Which factors should be considered while selecting a site for hydroelectric power plant? Explain in detail. [6]

2) Answer any 2 (two) of the following.

- 1) Write short note on-Super heater and air preheater. [6]
- 2) Explain the working of Hydro power plant. [6]
- 3) Enumerate and explain briefly the components of gas turbine power plant. [6]

3) Answer any 2 (two) of the following.

- 1) Draw an outline of ash disposal equipment? State the advantages of hydraulic system of handling ash. Also explain the problems of ash disposal. [6]
- 2) Explain safe working practice in power plant in brief. [6]
- 3) What is cooling tower? How cooling towers are classified? Explain any one cooling tower in detail. [6]

4) Answer the following questions.

- 1) Explain the causes and factors of accidents in power plants. [6]
- 2) Explain the factors to be considered while selecting steam turbines, enlist the specifications consists in steam turbines. [6]

5) Answer the following questions.

- 1) Explain the types of fuels used in steam power plants. [6]
- 2) Write short note on the coal handling process. [6]

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