

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 What is PH, discuss one method of PH measurement.
- Q.24 Explain the working principle and complete block diagram of hydro power plant.
- Q.25 Discuss the method of drum level and smoke density measurement.

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Roll No.

4th Sem./ Instrumentation & Control

Subject : Power Plant Instrumentation

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 Where was India's first nuclear power plant was installed at?
- a) Obninsk
 - b) Tarapur, Maharashtra
 - c) Boisar, Maharashtra
 - d) None of the mentioned
- Q.2 Which of the following is a type of power plant?
- a) Thermal power plant
 - b) Nuclear power plant
 - c) Hydropower plant
 - d) All of the mentioned

- Q.3 PH value of the buffer solution is
- a) 3 b) 7
- c) 12 d) 5
- Q.4 Chromatography is a physical method that is used to separate and analyse.
- a) Simple mixtures b) Complex mixtures
- c) Viscous mixtures d) Metals
- Q.5 Which of the following kind of energy output is obtained from a 'Steam Power Plant'
- a) Electricity b) Thermal energy
- c) Sound energy d) Heat energy
- Q.6 Flow of steam measurement by
- a) Orifice b) Venturimeter
- c) Rotameter d) All of these

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 Unit of Power is _____
- Q.8 Write one name of Nuclear power plant _____
- Q.9 Scale range of PH for acidic solution

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- Q.10 Thermocouple is used to measure the _____
- Q.11 Energy source of thermal power plant is
- Q.12 Principle of wind power plant is

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 Explain the working of Thermal power plant
- Q.14 Write an importance of instrument in power plant.
- Q.15 Explain the one method of measure current voltage and frequency in power plant.
- Q.16 Discuss one method analysis of water impurity method.
- Q.17 Discuss the Chromatography.
- Q.18 How to maintain the air/fuel ration in power plant
- Q.19 Explain the interlock boiler operation in power plant.
- Q.20 Explain the flue gas oxygen analyzer.
- Q.21 Discuss one method of steam flow measurement in power plant.
- Q.22 Discuss one method of speed and vibration measurement.

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