

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.

No. of Printed Pages : 4
Roll No.

221545A

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 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

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.