

G 1119

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Reg. No.....

Name.....

B.TECH. DEGREE EXAMINATION, MAY 2016

Seventh Semester

Branch : Applied Electronics and Instrumentation Engineering

INDUSTRIAL INSTRUMENTATION—II (A)

(Old Scheme—Prior to 2010 Admissions)

[Supplementary/Mercy Chance]

Time : Three Hours

Maximum : 100 Marks

Part A

Answer all questions.

Each question carries 4 marks.

1. Differentiate viscosity and consistency.
2. What is a dielectric constant ?
3. What is pH electron relation ?
4. How are pH meters installed and maintained ?
5. What is called conductivity ? How is it measured ?
6. How is electrical conductivity of a solution measured ?
7. What is a 'stroboscope' ?
8. What is the principle of mass spectrometer ?
9. What are the different types of powerplants ?
10. Draw the power plant process flow diagram and explain.

(10 × 4 = 40 marks)

Part B

Answer all questions.

Each full question carries 12 marks.

11. What are techniques that are use to measure viscosity and density in power plants.

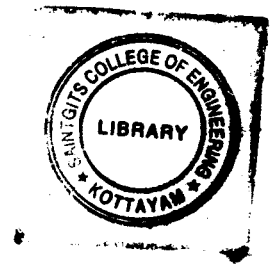
Or

12. With a neat sketch, explain the working principle of psychometer.
13. What is cell ? What are the different types of cells ? Explain any one in detail.

Or

14. What is pH ? What is the significance of the pH value ?

Turn over



15. Differentiate IR spectrometer and UV spectrometer.

Or

16. What is the basic principle of a Gas chromatography ? Explain any *one* method in detail.

17. What are the electrical methods that are used for the measurement of acceleration?

Or

18. What are the various methods of calibrating accelerometer ?

19. Explain with the help of a neat diagram and flow chart, the working of a nuclear reactor.

Or

20. What is the role of an engines in diesel electrical power plant ?

(5 × 12 = 60 marks)

