

Total No. of Questions : 8]

[Total No. of Printed Pages : 2

Roll No

MEPS-301(A)
M.E./M.Tech., III Semester

Examination, June 2017

Power System Instrumentation*Time : Three Hours*www.rgpvonline.com **Maximum Marks: 70**

- Note:** i) Attempt any five questions.
 ii) All questions carry equal marks.

1. a) Explain different types of digital display devices. 7
 b) What is the use of records in Power System Instrumentation? 7
2. a) Describe in details all the factors which influence the choice of transducers for measurement of a physical quantity. 7
 b) Explain solar flux measuring devices. 7
3. a) Describe the working of a Gas Analyzer with the help of suitable diagram. 7
 b) Explain different pollution monitoring devices. 7
4. a) Draw the block diagram of D/A converter and explain its working in detail. 7
 b) Explain data logger system with the help of suitable block diagram. 7

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5. a) What is data acquisition system? Describe the difference between analog and digital data acquisition system. 7
 b) What is multiplexing? How it is useful in data acquisition system? 7

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6. a) Give the advantages and disadvantages of digital transmission over analog transmission. 7
 b) Explain time division multiplexing with the help of suitable block diagram. 7
7. a) Name the various types of indicating devices used for power system instrumentations system and explain any one in detail. 7
 b) Compare various display devices used in power system instrumentation system. 7

8. Write short notes (any two): 7×2=14
 a) Supervisory Control
 b) Voltage and power factor measurement
 c) Pressure measurement
 d) Modulation techniques

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