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Question Paper Code: 35403

B.E. / B.Tech. DEGREE EXAMINATION, AUGUST 2021

Fifth Semester

Electronics and Communication Engineering

01UEC503 – ELECTRONIC MEASUREMENTS AND INSTRUMENTATION

(Regulation 2013)

Duration: 1:45 hour

Maximum: 50 Marks

PART A - (10 x 2 = 20 Marks)

(Answer any ten of the following questions)

1. List the sources of error.
2. Differentiate Accuracy and Precision.
3. Why delay line is used in CRO?
4. List the applications Q meter.
5. Differentiate Function generators from Signal generators.
6. Give the importance of L, C and R measurements.
7. List the different types of digital voltmeter.
8. What is meant by automatic zeroing?
9. Point out the analog elements used in digital data acquisition system.
10. List out the uses of data logger
11. What are the standards of measurement and lists their classification.
12. Differentiate Accuracy and Precision.
13. Why delay line is used in CRO?

14. List the applications Q meter.
15. Differentiate Function generators from Signal generators.

PART – B (3 x 10= 30 Marks)

(Answer any three of the following questions)

16. Describe about errors and its types in measurement with means adopted to minimize them. (10)
17. Draw and explain the block diagram of digital storage oscilloscope and the modes of operation of digital storage oscilloscope. (10)
18. Explain in detail about sweep generators. (10)
19. Explain the working principle of any two types of digital voltmeter. (10)
20. Explain the generalized diagram of a digital data acquisition system and give the uses of data acquisition system. (10)