

R16

Code No: 136BM

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year II Semester Examinations, July/August - 2021

ELECTRICAL AND ELECTRONICS INSTRUMENTATION

(Electrical and Electronics Engineering)

Max. Marks: 75

Time: 3 hours

Answer any five questions
All questions carry equal marks

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1. Discuss the main functional elements of a generalized measurement system in detail. [15]
 2. What are the commonly used standard test input signals as a reference inputs for the evolution of performance of the system? Explain. [15]
 3. Describe how frequency and phase angle measurements can be made with the use of CRO with neat sketches. [15]
 4. Explain the digital frequency meter with a neat block diagram. List the different methods used for high frequency determination. [15]
 5. Explain in detail how the spectra is displayed for the continuous wave, amplitude modulated, frequency modulated and pulse modulated signals. [15]
 6. Describe the circuit and working of a Q meter in detail. [15]
 7. Explain the different types of transducers in detail. Explain various advantages of electric transducers. [15]
 8. Describe the inductive transducer and photoelectric transducer methods for the measurement of pressure. [15]

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