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B.Tech. (ECE)
Supplementary Examination

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Roll No.....
Third Semester
Feb-2019

EE-251: ELECTRONIC INSTRUMENTATION AND MEASUREMENTS

Time: 03 hours

Max. Marks: 40

Note: All Questions are compulsory.
Assume suitable missing data, if any.

1. [a] Explain precision and sensitivity. [4]
[b] A component manufacturer constructs certain resistors to be anywhere between $1.14\text{k}\Omega$ and $1.26\text{k}\Omega$ and classifies them as $1.2\text{k}\Omega$ resistors. What tolerance should be stated? [4]
2. [a] Explain diagram, principle of operation and working of a Wheatstone bridge. Calculate the value of unknown resistance. [6]
[b] Write and explain the general equation for balance of the ac bridge. [2]
3. Explain the structure and working of IEEE-488/GPIB. [8]
4. Explain the construction and working of CRO. [8]
5. Explain the working of a photodiode as a photovoltaic device and a photoconductive device. [8]

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