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| 24. | Describe a basic Q-meter circuit working principle and explain the direct and parallel measurement methods for connecting unknown components to the test terminals of a Q-meter. | | CO3 | [K ₃] |
| 25. | Draw the block diagram and explain the Staircase-ramp type digital voltmeter. Also explain how its dependence of the accuracy of the conversion is reduced with dual slope converter. | | CO5 | [K ₂] |
| 26. | i. Using the block diagram, illustrate the importance of sweep frequency generator. | (6) | CO4 | [K ₂] |
| | ii. Describe the basic elements of a function generator with their purpose. | (8) | CO4 | [K ₂] |
| 27 | i. Enumerate the elements of a digital data acquisition system with the functioning of each element used. | (7) | CO6 | [K ₂] |
| | ii. Draw the schematic of IEEE 488 Instrumentation bus and explain its features. | (7) | CO6 | [K ₂] |
