Q.P. Code :10761

| | | [Time: 3 Hours] | [Marks:80] | |
|-----------------------|---|---|------------|--|
| | Please check whether you have got the right question paper. | | | |
| | N.B: 1 | 1. Question no.1 is compulsory. | | |
| | | 2. From Q2 to Q6 solve any three. | | |
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| Q1. Attempt any four. | | | 20 | |
| | . Draw Maxwell Bridg | lge and list applications. | | |
| 1 | . List different therm | nocouples and their typical range. | | |
| | Short note on Q me | eter. | | |
| | l. Define transfer. List | transfer. List different types of transducers. | | |
| | e. Draw a neat and lab | beled diagram for LVDT. | | |
| Q2. | . Explain FET electron | onic voltmeter with neat diagram. | 20 | |
| 1 | . Explain single chann | nnel and multichannel data acquisition system with neat labeled separate block di | íagrams. | |
| Q3. | . Explain following ap | pproaches of temperature measurements: RTD, Thermisters, and Thermocouple | s. 20 | |
| | | m of CRO. Also draw block diagram of DSO. No explanation needed. List application | | |
| Q4. | Q4. a. Explain in detail Dead Weight Testing with neat labeled diagram. | | | |
| 1 | o. Draw and explain So | Schering bridge. | | |
| Q5. | . Explain frequency a | and phase measurement with oscilloscope. | 20 | |
| - 1 | . Explain in detail typ | pes of errors in measurement system. | | |
| Q6 | Short note on | | 20 | |
| | a. Strain Gaug | ges | | |
| | b. Electromag | gnetic flow meter | | |
| | c. Rota meter | | | |
| \$ | d. Lissajous Fig | igures | | |
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