S.18 -

Code No.: 9A04604/R09

Set-4

B.Tech. III Year II Sem. Regular and Supplementary Examinations

April/May - 2013

ELECTRONIC MEASUREMENTS AND INSTRUMENTATION

(Electronics and Communication Engineering)

Time: 3 Hours

Max. Marks: 70

Answer any **FIVE** Questions All Questions carry equal marks

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1	(a)	What are the essential requirements of multipliers?
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- (b) Explain how different full scale voltage ranges may be obtained by the use of individual multiplier resistors or potential divider arrangement.
- 2. (a) How signal generators are different from self-contained oscillators?
 - (b) Write brief note about RF signal generators with frequency band limits.
- 3. (a) Describe with a diagram the operation of a harmonic distortion analyzer using a bridged T-network.
 - (b) Explain the procedure of measurement of a harmonic distortion analyzer using a bridged T-type.
- 4. (a) State the standard specifications of a sample CRO.
 - (b) Explain with a diagram how frequency can be measured using a gear wheel method.
- 5. With a neat block diagram, describe the working of a triggered sweep CRO.
- 6. (a) Describe the operation of the wheatstone bridge.
 - (b) Define the term null as it applies to bridge measurements.
- 7. (a) What is the operating principle of beta gauge?
- (b) What are the various scanning modes of a beta gauge?
- 8. (a) Explain about I/O address map and PC bus of PC system.
 - (b) Explain the hard disk features and partitions.