(OLD COURSE) Q.P. Code : **4686**

(3 Hours) [Total Marks : 100

N.B. : (1) Question **No.1** is **compulsory**.
    (2) Attempt any **Four** questions from remaining.

1. (a) Compare ASK and PSK. 20
   (b) Draw and explain bounded stain gauge.
   (c) Explain universal counter.
   (d) Explain RTD in detail.

2. (a) Explain working principle of thermistor. How thermistor can be used for measurement of temperature discuss with neat diagram. 10
   (b) What is difference between photosensitive. Photo conductive? Photo voltaic transducer. 10

3. (a) Write short note on the principle, construction and working of linear variable differential transformer. 10
   (b) Bounded metal wire strain gauge & construction. Discuss with principle. 10

4. (a) Explain dual slop intergrating method for A/D conversion. 10
   (b) Explain how an oscilloscope displays a signal. 10

5. (a) Draw and explain B.D. of spectrum analyzer. 10
   (b) Draw and explain B.D. of DSO with specifications. 10

6. (a) Draw and explain Digital frequency meter. 10
   (b) Draw and explain different type of telemetry system used in communication system. 10

7. Write short note on any **Four**
   (a) Harmonic Distortion Analyzer. 20
   (b) Network Analyzer.
   (c) Q-meter.
   (d) Data Logger.
   (e) Delay Line.

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