Q.1   Draw block diagram of successive approximation type DVM. Explain the working   5
and why it is called so?

Q.2   Draw the block diagram of Ramp type DVM and explain the function of each block   5
with waveforms.

Q.3   Explain with operation of AF sine wave and square wave generator with labelled   5
block diagram. State the applications of a spectrum analyzer.

Q.4   What is the difference between a wave analyzer and a harmonic distortion   5
analyzer? Where are spectrum analyzer commonly used?

GOVERNMENT COLLEGE OF ENGINEERING,AMRAVATI

CT-2

NAME OF SUBJECT :ELECTRONIC MEASUREMENTS(ETU603)

TIME : 1 HR   MAX MARKS : 15

1)   State different types of voltmeter.   (5)

2)   Explain how an analog signal is converted into digital signal.   (5)

3)   How a digital frequency meter works?Explain with proper diagram.   (5)

     OR Write down specifications of Digital Voltmeter.   (5)

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION

CLASS TEST- 2
COURSE CODE- ETU603
DATE- 13/03/15

COURSE NAME-ELECTRONIC MEASUREMENTS
TIME-1 hr
MARKS-15

Q1.Attempt any three.

(A)Explain Ramp Type Digital Voltmeter with timing diagram.

(B)Explain successive approximation type Digital Voltmeter with proper block diagram. **3M**

(C)What is mean by Digital Voltmeter? What is the basic principle of operation of DVM? What are the specification of DVM? And solve. **3M**

What is the resolution of 51/2 digit display on 2v and 20v ranges. **3M**

(D)Explain Potentiometric Type Digital Voltmeter .What is the significance of Potentiometric adjustment device? **3M**

Q2.Attempt all.

(A)Explain Fundamental Suppression Harmonic Distribution Analyzer.

(B)What is mean by Wave Analyzer .Explain Frequency Selective Wave Analyzer? **3M**

3M

ELECTRONICS AND TELECOMMUNICATION DEPARTMENT

Solve any **THREE**

Q.1 Draw block diagram of successive approximation type DVM. Explain the working 5
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