

Total No. of Questions : 4]

P453

SEAT No. :

[Total No. of Pages : 2

[5215]-223  
S.Y. B.Sc. (Regular)  
ELECTRONIC SCIENCE-I  
EL-221 : Electronic Instrumentation  
(2013 Pattern) (Semester-II) (Paper - I)

Time : 2 Hours]

[Max. Marks : 40

Instructions to the candidates:

- 1) All questions are compulsory.
- 2) Draw the neat diagram wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Use of non-programmable calculator is allowed.

Q1) Answer All of the following:

- a) State the role of inverter in UPS. [1]
- b) Define rms of the signal. [1]
- c) What is function generator? [1]
- d) State the advantages of digital thermometer. [1]
- e) "Speedometer is rpm meter".- Comment. [2]
- f) "In SMPS switching of the transistor is controlled as duty cycle of the pulse". Comment. [2]
- g) Find the static error if digital voltmeter reads 6.30v and true value is 6.25v. [2]
- h) Calculate the speed of tachometer in rpm. Given pulses per second is 400 and number of teeth on rotar is 40. [2]

Q2) Attempt any TWO of the following:

- a) Explain signal generator with block diagram and state the use of attenuation knots. [4]
- b) Draw block diagram of measurement system and explain each block in short. [4]
- c) Explain various blocks of SMPS. [4]

P.T.O.

# Electro Technology Question Paper 2013

**Yijin Wang**



**Electro Technology Question Paper 2013:**

## The Enigmatic Realm of **Electro Technology Question Paper 2013**: Unleashing the Language is Inner Magic

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