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**RAN-2103000206020094****T. Y. B. Sc. (Electronics) (Sem. - VI) Examination April - 2023****Electronics : Paper - IX****Electronic Instrumentation****सूचना : / Instructions**

(1)

नीचे दशावेल निशानीवाणी विगतो उत्तरवही पर अवश्य लभवी.  
Fill up strictly the details of signs on your answer book

Name of the Examination:

T. Y. B. Sc. (Electronics) (Sem. - VI)

Name of the Subject :

Electronics : Paper - IX Electronic Instrumentation

Subject Code No.: 2103000206020094

Seat No.:

Student's Signature

- (2) Figure on the right indicates full marks.
- (3) All symbols and abbreviations have their usual meaning.
- (4) Non-programmable calculators are allowed.
- (5) Q. 1 is compulsory.
- (6) Assume data if necessary.

**Q. 1. Answer in brief.****8**

1. What is corrective maintenance?
2. How will you identify a faulty diode and transistor.
3. Write two necessary characteristics of a sweep signal.
4. What is a noise?

**Q. 2. A) Explain how sweep signal is generated in a CRO. Describe the simple Block diagram of CRO.****14**

B) Find expression the deflection sensitively of CRO.

**OR**

A) Write short note on Digital Multimeter (DMM).

**14**

B) Explain in detail Successive approximation OR Integrating type DVM.

- Q. 3.** A) Draw the block diagram of Square wave Generator and explain each block in detail. **14**
- B) Draw the block diagram of Function Generator and explain each block in detail.

**OR**

- Q. 3.** A) Draw the block diagram of *harmonic distortion analyzer* and explain. **14**
- B) Explain spectrum analyzers in details.

- Q. 4. Write Short Note. (Any TWO) 14**
1. Wave Analyser.
  2. Half split- method.
  3. Random noise generator.
  4. Digital Phase meter.
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