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NA-88-2023

FACULTY OF SCIENCE

B.Sc. (Third Year) (Sixth Semester) EXAMINATION

NOVEMBER/DECEMBER, 2023

(New/CBCS Pattern)

ELECTRONICS

Paper XV

(Electronic Instrumentation)

(Monday, 18-12-2023)

Time: 10.00 a.m. to 12.00 noon

Time—Two Hours

Maximum Marks—40

- N.B. : (i) Attempt All questions.
 - (ii) Illustrate your answers with suitably labelled diagrams wherever necessary.
- Define resistive transducer. With neat diagram explain working principle of potentiometer and resistance pressure transducer.

Or

- (a) Discuss the static characteristics of an instrument.
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- (b) What do you mean by standard? State the different types of standard.
- 2. What are photoelectric transducers? Explain briefly working principle of photodiode and phototransistor.

P.T.O.

WT (2) NA—88—2028 Or

- (a) Draw the block diagram of digital pH meter and explain the basic working of it.
- (b) Draw the circuit diagram of I to V converter and explain it. 7
- 3. Write short notes on any two of the following:
 - (a) Error and accuracy
 - (b) Load cell
 - (c) LVDT
 - (d) Precision rectifier.