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SUBJECT CODE NO: - Y-2171
FACULTY OF SCIENCE AND TECHNOLOGY
B.Sc. T.Y (Sem-VI)
Examination March / April - 2023
Instrumentation

[Time: 1:30 Hours]

[Max. Marks:50]

Please check whether you have got the right question paper.

N. B

1) Attempt all questions.

Q.1 Describe the working along with construction of LCD display Enlist its important features. 20

OR

With the help of neat diagram explain in details FM recording

Q.2 What is resistive transducer? Explain the potentiometer and resistance pressure transducer 20

OR

Write short notes on any four of the following

- a) Piezo electric transducer
- b) Types of static error
- c) Photo cell
- d) Digital data recording
- e) Sources of error
- f) Resistance thermometer

Q.3 Attempt the following. Selecting correct option from the given alternations. 10

1. In _____ transducer , the resistance of sensing element changes
a. resistance b. capacitive c. inductive d. electro-magnetic
2. The lowest potential electrode in photo multiplier tube is _____
a. anode b. cathode c. dynode d. grid
3. What is moving part of LVDT
a. primary b. secondary c. core d. all of the above
4. _____ is dynamic characteristics of an instrument
a. voltage b. current c. speed of reposer d. size
5. Capacitive transducers are _____ type
a. passive b. active c. digital d. pulse

6. Self-generating transducers are _____ transducers
a. Active b. positive c. secondary d. inverse
7. Photo conductive cell consists of a thin film of _____
a. quartz b. lithium sulphate c. barium nitrate d. selenium
8. The gallium arsenide phosphide is used to produce _____ colour LED.
a. white b. green c. blue d. red or yellow
9. The X-Y recorder uses _____ variables to positioning of head.
a. two b. three c. four d. five
10. The load cell is an example of _____ transducer
a. displacement b. temperature c. pressure d. humidity