

Total No. of Printed Pages:02

SUBJECT CODE NO:- 2171
FACULTY OF SCIENCE AND TECHNOLOGY
B.Sc. T.Y (Sem-VI)
Examination March/April-2022 (To Be Held In June/July-2022)
Electronics Paper- XIX (601)
(B) (Instrumentation)

[Time: 1:53 Hours]

[Max.Marks:50]

Please check whether you have got the right question paper.

- N.B i) Attempt all questions
- Q.1 Describe the working along with construction of LCD display. Enlist its important feature. 20
 OR
 What is inductive transducer? Describe linear variable differential transducer (LVDT).
- Q.2 Discuss the photoelectric transducer. With the help of necessary diagram explain the working of photomultiplier tube. 20
 OR
 Write short notes on any four of the following
 a) Piezoelectric transducer
 b) Photo transistor
 c) Resistance thermometer
 d) X-Y Recorder
 e) Atomic frequency and time standards
 f) Type of static error
- Q.3 Attempt the following selecting correct option from the given alternatives 10
1. The degree of exactness of a management compared to the expected value is ____
 a) Resolution
 b) Sensitivity
 c) Accuracy
 d) Error
 2. Error that occurs due to equality affected measurements is called
 a) Random
 b) Systematic
 c) Frequent
 d) Precision
 3. Self generating transducers are ____ transducer.
 a) Active
 b) Passive
 c) Secondar
 d) inverse
 4. Piezo electric transducers are ____
 a) passive transducer

- b) inverse transducer
 - c) digital transducer
 - d) active transducer
5. The resistance of LDR _____ when exposed to redient energy
- a) remains unchanged
 - b) increases
 - c) reaches to maximum value
 - d) decreases
6. The load cell is _____ type of transducer
- a) temperature
 - b) electromagnetic
 - c) pressure cell
 - d) photo electric
7. The GaAs material is doped to produce _____ colour LED.
- a) Yellow
 - b) Green
 - c) Red
 - d) Blue
8. The nematic liquid crystals is originally _____
- a) Transparent
 - b) Semi- transparent
 - c) Opaque
 - d) Coloured
9. Static error can also sub divided into
- a) Random and systematic
 - b) Frequent and systematic
 - c) Precision and frequent
 - d) Static and dynamic
10. _____ is a dynamic characteristics of an instrument
- a) Voltage
 - b) Current
 - c) Speed of response
 - d) Size