



R20 Regulation

Subject code:3P5CE

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A+' Grade)

B.Tech V Semester Supplementary Examinations, December 2024

INSTRUMENTATION CONTROL SYSTEM

(ME)

Maximum Marks: 70

Date:06.01.2025

Duration: 3 hours

- Note:
- 1.This question paper contains two parts A and B.
 2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
 3. Part B consists of 5 Units. Answer any one full question from each unit which carries 10M.
 4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks (10X2M=20) Marks)		CO	Bloom Tx
1	Define Piezo electric transducer.	1	L1
2	List any two Measurement of Levels.	1	L1
3	List the two types Flow Measurement.	2	L1
4	Define Pyrometers.	2	L1
5	What is electrical strain gauge?	3	L1
6	Explain Measurement systems.	3	L1
7	What is Low pressure measurement?	4	L1
8	When is Thermistor?	4	L1
9	What is the purpose of final control element?	5	L1
10	Define Electrical tachometers.	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		CO	Bloom Tx
11	Explain with a sketch of dial indicator. [10M]	1	L2
	OR		
12	Explain Bubbler level indicators. [10M]	1	L2
13	Explain ionization gauge with a neat sketch. [10M]	2	L2
	OR		
14	What is Laser Doppler Anemometer (LDA) with sketch? [10M]	2	L2
15	Briefly Measurement of Humidity. [10M]	3	L2
	OR		
16	Explain with sketch of piezo electric transducer. [10M]	3	L2
17	Write short notes on ionization gauge with help of sketch. [10M]	4	L2
	OR		
18	Classifications of instrumentations? [10M]	4	L2
19	Explain Sling psychomotor & absorption psychomotor. [10M]	5	L2
	OR		
20	Explain with a sketch of dial indicator. [10M]	5	L2