



Regulation R18

Subject code: 2E7CA

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VII Semester Supplementary Examinations, November 2023

INSTRUMENTATION CONTROL SYSTEM

(Mechanical Engineering)

Maximum Marks: 70

Date:08.12.2023 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 10 questions. Answer any 5 questions which carries 10M.
 4. Each question carries 10marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks

(10x2M=20 Marks)

1	Define Piezo electric transducer.	L1
2	List any two Measurement of Levels.	L1
3	List the two types Flow Measurement.	L1
4	Define Photo electric transducers.	L1
5	What is electrical strain gauge?	L1
6	Explain Measurement systems.	L2
7	What is Dew point meter?	L1
8	Write speed and position control systems.	L1
9	What is Direct method?	L1
10	What McLeod pressure gauge?	L1

Part-B

Answer all the questions

(5X10M=50Marks)

11	Explain with a sketch of dial indicator. [10M]	L2
	OR	
12	Explain Bubbler level indicators. [10M]	L2
13	What is Laser Doppler Anemometer (LDA) with sketch? [10M]	L1
	OR	
14	Describe the dead weight piston gauge. [10M]	L2
15	Briefly explains measurement of liquid level. [10M]	L2
	OR	
16	Explain with sketch of piezo electric transducer. [10M]	L2
17	Write short notes on ionization gauge with help of sketch. [10M]	L2
	OR	
18	Classifications of instrumentations. [10M]	L3
19	Explain Sling psychomotor & absorption psychomotor. [10M]	L2
	OR	
20	Explain with a sketch of dial indicator. [10M]	L2

