

## SEVENTH SEMESTER B. TECH (ELECTRONICS AND INSTRUMENTATION) PROCTORED ONLINE END SEMESTER EXAMINATION Dec. 21/Jan. 22

SUBJECT: Virtual Instrumentation (ICE 4306)

TIME: 75 min DATE: 29/12/2021 MAX MARKS 20

**Note: Answer All questions.** 

1	Α	With a diagram explain the architecture of the virtual instrumentation system	5
	В	Describe 4-20 mA current loop with a diagram and mention its advantages.	3
	С	Distinguish traditional instruments from virtual instruments.	2
2	А	Brief about the following types of signal conditioning methods.  (i)Amplification (ii) Isolation (iii) Multiplexing (iv) Filtering	4
	В	Explain the GPIB system with a neat diagram and mention their features.	3
	С	Discuss three applications of  i) Pattern matching  ii) Geometric matching.	3