DSY

K. J. Somaiya Institute of Technology, Sion, Mumbai-22 (Autonomous College Affiliated to University of Mumbai)

Nov - Dec 2024

B. Tech Program: Electronics & Telecommunication Scheme III

Regular Examination: SY Semester: III

Course Code: EXC304 and Course Name: Electronics Instrumentation And Control System

Date of Exam: 26/12/24

Duration: 02.5 Hours

Max. Marks: 60

| Instructions: (1)All questions are compulsory. (2)Draw neat diagrams wherever applicable. (3)Assume suitable data, if necessary. | | | (8)8 | | |
|--|---|-------------------|-----------|----------|--|
| Q. No. | Question | Max. Marks | CO | BT level | |
| Q1 | Solve any two questions out of three: (05 marks each) | 10 | ce hos si | ne(1 | |
| a) | Find the transfer function of given network. | | 6 | AP | |
| b) | Find the stability of given equation. $S^5 + 2S^4 + 3S^3 + 6S^2 + 10S + 15$ | | 4 | AP | |
| C) | Write selection criteria of transducer. | | 2 | U | |
| Q 2 | Solve any two questions out of three: (05 marks each) | 10 | | | |
| a) | Compare RTD, thermistor and thermocouple. | erselû Brouple | 3 | R | |
| b) | Write steps for solving SFG. | | 5 00 | . U | |
| C) | Write short note on calibration. | | 1 | U | |
| Q.3 | Solve any two questions out of three. (10 marks each) | 20 | | | |
| a) | Find C(s) / R(s) for given system, | | 3 | AP | |

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