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Roll No

AU/ME-402-CBGS

B.Tech., IV Semester

Examination, June 2020

Choice Based Grading System (CBGS)

Instrumentation and Control

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

iii) In case of any doubt or dispute the English version question should be treated as final.

1. How instrumental system is classified? Write down functional elements of measurement system.
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2. Discuss followings:
 - a) Sequential and random tests.
 - b) Data acquisition reduction system

PTO

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3. Discuss response concept to transient inputs and random signal input.

4. Explain followings.
 - a) Harmonic signal non harmonic signal
 - b) First and second order signal compensation

5. Enlist various methods of measurement of temperature discuss thermocouple method in detail.

6. Discuss followings.
 - a) Rotameter
 - b) Venturi meter

7. Discuss followings.
 - a) Strain gauges
 - b) Stroboscope
 - c) Measurement of torque
 - d) Velocity measurement

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Contd...

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8. Write short notes on followings.

- a) Open loop and close loop control system
- b) Mathematical modelling of dynamic system
- c) System modelling using softwares
- d) Displacement measurement

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