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Roll No

ME-402-CBGS
B.Tech., IV Semester
Examination, December 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) Draw neat sketch, if required.

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

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| 1. a) | Classify the instrument systems in brief. | 7 |
| b) | What do you mean by uncertainties? Explain. | 7 |
| 2. a) | Write a short note on random test. | 7 |
| b) | Discuss the use of barometer in brief. | 7 |
| 3. a) | What are working principle of thermocouple? | 7 |
| b) | How do you measure pressure? Discuss. | 7 |

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4. What does a venturimeter measure? Discuss the working principle of venturimeter. 14
5. a) How do you measure torque on rotating shaft? 7
>
b) Write a short note on power estimation from rotating shaft.
6. What are the uses of orifice meter? Discuss the working principle of orifice meter. 14
7. a) What do you mean by closed loop control? Explain. 7
b) What is potentiometers? Explain. 7
8. a) Discuss the uses of strain gauge in brief. 7
b) Write short note on any two of the following : 7
i) Harmonic signal
ii) Non harmonic signal
iii) Open loop control
iv) Stress

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