Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES END SEMESTER EXAM, JULY 2020

Course: Process Dynamics Control and Instrumentation Program: B. TECH APE GAS Course Code: CHCE 3007 Semester: VI

Max. Marks: 100

NOTE: ATTEMPT ALL

- The characteristic equation is given by s⁵ + s⁴ + 3s³ + 3s² + 15s + 10 = 0 Determine the number of roots having positive real part. [15] CO3&CO4
 Explain all the dynamic characteristics of an instrument with the bala of suital
- 2. Explain all the dynamic characteristics of an instrument with the help of suitable examples.[15] CO5
- 3. With the help of an example explain the difference between feedforward and feed backward control system.[15] CO1&CO2
- 4. List out the various types of error in measurement and explain any one with the help of an example.[15]CO5
- 5. Explain with the help of diagram the construction, working, advantage, disadvantage of anyone pressure measuring devices. **[20] CO5**
- 6. Classify various temperature measuring devices and explain any one with suitable diagram.[20] CO5
