

M.Sc. (Industrial Chemistry) Examination
Semester-III
Paper - IC- 10: Measurement, Process control & Energy sources
Subject Code: 3567

Dec - 2016

Time: 2.30 Hours

Total Marks: 70

Que.-1 Explain construction, working and sketch of sliding stem valves and spring actuator.[14]

OR

Que.-1 Explain construction, working and sketch of single seat globe valve and double seat globe valve.[14]

Que.-2 What is telemetering? Explain pneumatic telemetering system with sketch.[14]

OR

Que.-2 What is control system? State elements of control system.[14]

Que.-3 With neat sketch explain pneumatic relays.[14]

OR

Que.-3 Write a complete note on sun-shine recorder and pyranometer for measuring solar radiation.[14]

Que.-4 What is solar energy? Write a short note on solar cooker and solar water heater.[14]

OR

Que.-4 What is energy plantation? Explain downdraft Gasifier with neat sketch.[14]

Que.-5 State and explain advantages and disadvantages of wind energy. Give construction, working and application of Windmill.[14]

OR

Que.-5 What is ocean thermal energy? Write a note on open & close cycle OTEC system.[14]