

V.P. & R.P.T.P SCIENCE COLLEGE  
INTERANAL EXAM

T.Y.B.Sc (SEM-V<sup>th</sup>) INSTRUMENTATION

SUB. CODE:- (US05CINV03)

DATE:-05/10/2017

Time:- 11:00 am to 12:30 pm

MARKS-25

**Q-1 Choose correct answer**

[3]

- Which of the following is not a timing relay?  
(A) OFF- delay Relay (C) On- Delay Relay  
(B) Latching Relay (D) none of above
- Accelerometer is used for measurement of \_\_\_\_\_  
(A) Velocity (C) Position  
(B) Acceleration (D) none of above
- Which of the valve is used for large flows with low pressure drops?  
(A) Globe valve (C) Butterfly Valve  
(B) Diaphragm Valve (D) none of above



**Q-2 Short answer type question (attempt any two)**

[4]

- Explain in brief : Relay Logic
- Enlist advantage and disadvantage of stepper motor.
- Write in brief : Linear output actuator

**Q-3** Write a detailed note electromechanical relay.

[6]

**OR**

**Q-3** Write a detailed note on Solid State relay.

[6]

**Q-4** Explain the working of synchro torque transmitter

[6]

**OR**

**Q-4** Explain the working of basic servo system.

[6]

**Q-5** Explain Flow rate V/s flow characteristics

[6]

**OR**

**Q-5** Explain double port globe valve in detail.

[6]