

## Measurement and Control System 2<sup>nd</sup> Quiz

Name:.....

Roll.No.:.....

1. ....system provides the same output for the same input irrespective of when input is given. (1)
2. Traffic light system is the example of..... (1)
3. A system with the polynomial  $s^4 + 5s^3 + 3s^2 + 6s + 5 = 0$ . How many roots are in the RHS plane. Roots in RHS plane is ..... (2)
4. Find the function  $f(t)$  for the following function  $F(s)$ :

$$F(s) = \frac{1}{s(s+1)(s+5)}$$

Then  $F(s)$ .....

(2)

5. Calculate the poles and zeroes for the given transfer function  $G(s) = \frac{5(s+2)}{(s^2 + 3s + 2)}$ .

Poles is ..... And Zeros .....

(2)

6. The number of roots in the left half of the s-plane of the given equation  $s^3 + 3s^2 + 4s + 1 = 0$  is:.....

(2)