**METHODIST COLLEGE OF ENGINEEIRNG AND TECHNOLOGY, ABIDS, HYDERABAD**

**QUIZ-1 EXAMINATION**

**SEM: V SEM CBCS DATE: 24/10/2018 TIME:12 TO 1 SUBJECT: ACS- QUIZ MAX MARKS: 10**

CHOOSE CORRECT ANSWER

1. LOOP TRANSFER FUNCTION IS GIVEN BY:

a. G(S)

 b. H(S)

c. G(S)H(S)

d. G(S)/H(S)

1. AS PER NYQUIST STABILITY CRITERION FOR STABLE SYSTEM ,THE NO OF ANTICLOCKWISE ENCIRCLEMENTS AROUND (-1,j0) IS :

a. N<0

 b. N=P-Z

 c. N=Z-P

 d. N=0

1. SINUSOIDAL TRANSFER FUNCTION IS OBTAINED BY :
2. REPLACING, w BY jw IN T(S)
3. REPLACING, S BY jw IN T(S)
4. REPLACING, j BY jw IN T(S)
5. REPLACING, S BY w IN T(S)

 4 IN LEAD COMPENSATOR:

a. POLE IS NEAR TO ORIGIN COMPARED TO ZERO

 b. ZERO IS NEAR TO ORIGIN COMPARED TO POLE

 c. POLE AND ZERO ARE ON JW AXIS

 d. POLE AND ZERO ARE AT ORIGIN

1. THE TRANSFER FUNCTION OF PID CONROLLER IS:

a. $k\_{p}$+ s$k\_{d}$

b. $ \frac{K\_{i}}{s}$+ s$k\_{d}$

C. s$k\_{d}$

d. $k\_{p}+ \frac{K\_{i}}{s}$+ s$k\_{d}$