# **ELECTRICAL ENGINEERING**

# PAPER-I

- Consider the following statements with reference to a system with velocity error constant K<sub>s</sub> = 1000
  - 1. The system is stable.
  - 2. The system is of type 1
  - 3. The test signal used is a step input.

Which of these statements are correct?

- a. 1 and 2
- b. 1 and 3
- e. 2 and 3
- d. 1, 2 and 3
- Which one of the following statements is NOT of correct?
  - With the introduction of integral control, the steady state error increases
  - The generalised error coefficients provide a simple way of determining the nature of the response of a feedback control to any arbitrary input
  - c. The generalized error coefficients led to calculation of complete steather response without actually sollars in system differential equation.
  - d. For a type-1 system, in the care state error for accelerating post is intinite
- Consider the following atoments with reference to the life of the characteristic equation of unity feedback control system with an open loop transfer function of

(x) 
$$(x+1)(x+3)(x+5)$$
  
 $s(x+2)$ 

- Figh reus starts at an open loop pole an lends either at an open loop zero or infinity
- Each locus starts at an open loop pole or infinity and ends at an open loop zero.
- There are three separate root loci.
- 4. There are five separate root loci.

Which of these statements are correct ?

- a. 2 and 3
- b. 2 and 4
- e. I and 3

- d. 1 and 4



The Bodge phase as it plot system is shown above.

The type of the system

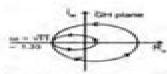
- a 0
- by I
- c. 2
- d.
- 5. unsfer function of a system is

$$K(x+10)^{2}(x+100)$$

$$x(x+25)$$

The number of loci terminating at infinity

- a. 0
- b. 1
- e. 2
- d. 3
- 6.



The Nyquist plot of a unity feedback system having open  $G(x) = \frac{K(x+3)(x+5)}{(x-2)(x-4)}$ 

loop transfer function for K = 1 is as shown above. For the system to be stable, the range of values of K is

- a. 0 < K < 1.33
- b. 0 < K < 1/1.33
- e. K > 1.33
- d. K > 1/1.33

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