**Control Systems:**

1. Electronic control systems have the serious draw-backs of
(a) low reliability (b) operational difficulty (c) temperature sensitiveness (d) all of above
2. The system whose characteristic equation has the following roots is marginally stable
(a) -j, j, -1,1 (b) -3,-2,0 (c) -2+3j, -2-3j, -2 (d) -3,-2,-1
3. A phase log compensation will
(a) improve relative stability
(b)increase the speed of response
(c)increase band-width
(d) increase overshoot
4. For Nyquist plot we use
5. open loop function
6. closed loop function
7. characteristic equation
8. any of the above
* A system with gain margin close to unity or a phase margin close to zero is
1. highly stable
2. oscillatory
3. relatively stable
4. none of these
* Root locus diagram exhibits the
1. frequency response of a system
2. poles of the transfer function for a set of parameter values
3. bandwidth of system
4. all of the above
* Increase in the gain K makes the system
1. more stable
2. unstable
3. none of above
* The transfer function of a system is used to determine
1. the output for a given input
2. the type of system
3. the input for a given output
4. the steady state gain
* In a servo system the voltage induced in the control transformer rotor is the
1. error voltage
2. driving voltage
3. opposing voltage
4. none of these
* With the feedback system, the transient response
1. decays slowly
2. decays rapidly
3. rises slowly
4. rises quickly