



**SNS COLLEGE OF TECHNOLOGY  
(An Autonomous Institution)**



**DEPARTMENT OF BIOMEDICAL ENGINEERING**

**19BMT301- Biocontrol System: Unit 2 and 3**

**2 Marks QB:**

1. What is time response?
2. What is transient and steady state response?
3. What is the importance of test signals?
4. Name the test signals used in control system.
5. Define Step signal.
6. Define Ramp signal.
7. Define parabolic signal.
8. What is an impulse signal?
9. What is the order of a system?
10. Define Damping ratio.
11. How the system is classified depending on the value of damping?
12. Sketch the response of a second order under damped system.
13. List the time domain specifications:
14. Define Delay time.
15. Define rise time.
16. Define Peak time.
17. Define Peak overshoot.
18. Define settling time.
19. What is type number of a system? What is its significance?
20. What is steady state error?
21. Define static error constants.
22. What are generalized error coefficients?
23. Define BIBO Stability.
24. What is characteristic equation?

25. How the roots of characteristic equation are related to stability?
26. What is the necessary condition for stability?
27. What is Routh stability condition?
28. What is root locus?
29. How will you find root locus on real axis?
30. What is centroid and how it is calculated?
31. What is frequency response?
32. What are advantages of frequency response analysis?
33. What are frequency domain specifications?
34. Define Resonant Peak.
35. What is resonant frequency?
36. Define Bandwidth.
37. What is cut-off frequency and cut-off rate?
38. Define gain margin.
39. Define phase margin.
40. What is phase and Gain cross-over frequency?
41. What is Bode plot?
42. Define corner frequency.
43. What are the advantages of Bode Plot?