বিদ্যাসাগর বিশ্ববিদ্যালয়

VIDYASAGAR UNIVERSITY

M.Sc. Examinations 2020
Semester IV
Subject: ELECTRONICS
Paper: ELC - 403
(Theory)

Full Marks: 40   **Time: 2hrs.**

Candidates are required to give their answers in their own words as far as practicable.

Answer any one of the following:

1. Write short note on Routh-Hurwitz criterion with example.

2. Write short note on Polar plot with example.

3. Write short note on Root Locus plot with example.

4. Write short note on Nyquist plot with example.

5. Write short note on Bode plot with example.

6. Write Mason's gain formula. Explain, how overall transfer function is obtained by using this formula.

7. Plot time response of a second order control system when unit step input is applied. Define rise time, peak time, peak overshoot and steady state error.

8. Write short note on function generator.

9. Write short note on spectrum analyzer.

10. Define transducer. Write short note on semiconductor strain Gauge.

11. Write short note on spectrophotometer.

12. Write short note on instrumentation amplifier.