Syllabus and Structure of Online End-Semester Examination of CT215 course on 2nd July 2020

Syllabus

pdf files

1. William Hayt, John Buck-Engineering Electromagnetics, 8th Edition - McGraw-Hill (2011), page 327 (only section 10.11), pages 328 to 344, pages 345 to 354
2. Peter Rizzi's Book, page 9 (0nly Fig. 1-4), page 86 (only section 86), page 87, page 89, pages 61 to 69, 90 to 91 (only portion on short-circuited line), pages 93 to 94 (only on open-circuited line), pages 102 to 104, 182 to 185, page186 (except voltage breakdown in coaxial line), page 193 (only Fig. 5.7) and page 197 (only Fig. 5-11), pages 200 to 202 (Only Sections 5.4 and 5.4a) and pages 216 and 217 (only section 5-4b).
3. Electronic Communications By George Kennedy, pages 417 to 419 (Only section 12-1).
4. Book by G. S. Raghuvanshi page 577 to 578 (Only Table 11.8).
5. George Kennedy's Book -pages 311 and 312 (Only sections 10-1 and 10-1.1).
6. George Kennedy Book, Pages 206 to 210
7. Smith chart examples 11.16 and 11.17
8. Solution Example 6.31
9. Transient Examples 6.31 and 6.32.

Online lectures on You Tube

Contents of all online lectures delivered between 4 May to 8 June 2020 on You Tube.

Structure of Examination

Date –2 July 2020
Time – 10:00 to 11:30 am
Duration - 1 Hour 30 Minutes
Answer All Questions

Format of online examination

Section A

Answer 25 quiz-type questions in 1 letter or few words or 1 or 2 lines based on entire syllabus of End-Semester Examination.

Out of 25 quiz-type questions, 4 questions will be on finite transmission line, 12 questions will be on Smith chart and matching, 4 questions will be on transients and 5 questions will be on practical transmission lines.

Weightage is 16%.

Scientific Calculator may be required.

Section B

2 Question on finite transmission line involving calculations similar to Section 10.12 (Some Transmission Line Examples), Examples 10.18 and 10.19 of the e-book.

2 Questions on Transient Analysis involving calculations, drawing voltage and current reflection diagrams similar to example 10.11 of the e- book, examples on pages 63 to 68 of Peter Rizzi's Book and transient examples 6.31 and 6.32.

Weightage is 11%.

For answer questions in section B. Scientific Calculator will be required.