

(2003-2004 A.B) M 203 - Topology II SX-S212

UNIT I : The countability axioms-the separation axioms, the Urysohn lemma-the Urysohn metrization theorem-the Tietze extension theorem.

Section 30 to 35 of Chapter 4.

UNIT II : The Tychonoff's theorem-the Stone-Čech compactification-Local finiteness-The Nagata-Smirnov Metrization theorem.

Sections 37 to 38 of Chapter 5 and 39 and 40 of Chapter 6.

UNIT III : Complete metric spaces-compactness and metric spaces, pointwise and compact convergence-Ascoli's theorem.

Sections 43, 45, 46 and 47 of Chapter 7.

UNIT IV : Baire space, introduction to dimension theory.

Sections 48 and 50 of Chapter 8.

Content and Extent, as in the Book.

Topology by James R. Munkres, Second Edition
Pearson Education, Asia Low Price Edition