Abstract

The main aim of this work is to expand and study some types of topological space by minimal B\*c – open set and maximal B\*c – open set.

For any topological space X the concepts of minimal B\*c – open (resp. maximal B\*c – open) sets and minimal B\*c – closed (resp. maximal B\*c – closed) sets are well studied. In this work we get every B\*c – open set is a β – open set . And For any space X. If A is a – closed. Then A is a β – open set iff A is a B\*c – open. And every mB\*c– open( resp. MB\*c – open) set is a mβ - open (resp. Mβ – open) set . And let X, Y be a top. sp. and let F: X Y be a B\*c – cont. (resp. B\*c – open, B\*c – closed) function, then F is a β – cont. (resp. β – open, β – closed) function . And let X, Y be a top. sp. and let F: X Y be a mB\*c – cont. function, then F is a mβ – cont. function. And let X, Y be a top. sp. and let F: X Y be a MB\*c – cont. function, then F is a Mβ – cont. function.

For any top. sp. X. Then:

i) If X is a mB\*c- Ti (resp. MB\*c -Ti) sp., then X is a β - Ti sp., i = 0, 1.

ii) X is a MB\*c - T1 sp. iff X is a B\*c - T1 sp.

iii) If X is a mB\*c -T1 sp., then X is a MB\*c - T1 sp.

iv) If X is a mB\*c - T1 sp., then X is a B\*c - T1 sp.