SUMMARY & CONCLUSION

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This dissertation is devoted to study of semi star generalized closed sets , $(1,2)^*$ -semi generalized separation axioms and $(1,2)^*$-generalized homeomorphisms in bitopological spaces.

In Chapter- I is devoted to study semi star generalized closed sets in bitopological spaces. Semi star generalized closed is defined using generalized closed sets and using semi star generalized closed sets Pairwise s^*g-continuous functions, Pairwise s^*GO-connected spaces and Pairwise s^*GO-compact spaces are discussed. Properties, characterizations and applications of $(1,2)^*$ -s^*g closed sets are studied. Further $(1,2)^*$ -s^*g continuous function and its relationship with various other functions are defined.

Semi star generalized closed is defined using generalized closed sets and using semi star generalized closed sets the followings are defined Pairwise s^*g-continuous functions, Pairwise S^*GO-connected spaces and Pairwise S^*GO-compact spaces are discussed.Properties,characterizations and applications are analyzed.

In Chapter - II, $(1,2)^*$-semi generalized separation axioms in bitopological spaces are discussed. Properties and characterizations of $(1,2)^*$ -sg-T_i spaces, $(1,2)^*$ -ψ -T_i spaces, $(1,2)^*$-semi-g-regular spaces and $(1,2)^*$ -semi-g-normal spaces are analysed.

In Chapter-III $(1,2)^*$-generalized homeomorphisms,$(1,2)^*$-gc homeomorphisms,$(1,2)^*$-gs homeomorphisms and $(1,2)^*$-gsc homeomorphisms are studied. Properties ,characterizations and applications are analyzed.

These concepts can be extended to fuzzy topological spaces and fuzzy bitopological spaces.