52 2 The Islamia University of Bahawalpur
Pepartment: Mathematics

MSc. Mathematics
Paper: 201 (Topology & Functional analysis)

First Annual / 2017
Maximum Marks: 100
Time Allowed: 3 1/2 Hrs

NOTE: Attempt any Five questions including compulsory Q. No. 1 & selecting at least One question from each Section. All questions carry equal marks.

Q.1: Each part of question carries 04 marks.

- Every totally bounded metric space is bounded.
- ii. Any infinite space with cofinite topology is connected.
- iii. A space X is a T1 -space then prove that Enchant pornosabser of X is closed
- iv. State and prove polarization (dentity)
- v. Define blowing (a) Orthogonal projection (b) Hilbert space

#### Section-I

- 2. (a) A family B of subset of a topological space  $(X, \tau)$  is a base for topology iff
  - (i) X = UB, that is, every point of X is in some  $B \in B$
  - (ii) For  $B_1, B_2 \in B$  and  $x \in B_1 \cap B_2$ , there is a  $B \in B$  such that  $x \in B \subseteq B_1 \cap B_2$ .
  - (b) Prove that every second countable space is first countable. Is the converse of this statement generally hold? Verify with example.
- 3. (a) Prove that every completely regular  $T_1$  -space is  $T_2$  -space.
  - (b) Prove that a closed continuous image of a normal space is normal.
- 4. (a) Every sequentially compact space is countably compact,
  - (b) The continuous image of a competed track blocking

5 (a) Prove Matche normed space lo is a Banach space.

- (b) Let N be a normed linear space in which every absolutely convergent series converges iff N is a Banach space.
- 6. (a) Let N be a normed space and N\* be its dual space then prove that dim(N) = dim(N\*).
  - (b) State and prove F. Riesz lemma.

#### Section-III

- 7. (a) Let A be a complete subspace of an inner product space V. Then there is a non-zero vector z in V such that  $z \perp A$ .
  - (b) Prove that every inner product space is hornied space is the converse of this statement generally hold? Werfs with example.

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