



NOTE: Attempt any FIVE questions in all selecting at least TWO questions from each section.

SECTION-I

Q.1	(a)	Let A be a subset of a topological space (X, τ) then Prove that : (i) $(A^0)^c = \overline{A^c}$ (ii) $\overline{A} = A \cup F_p(A)$ (iii) $A^0 = A \setminus F_p(A)$.	(10)
	(b)	Prove that the set of rational numbers \mathbb{Q} , as a subspace of \mathbb{R} , does not have discrete topology.	(10)
Q.2	(a)	Prove that a function $f : X \rightarrow Y$, is continuous on X if and only if for any subset A of X , $f(\overline{A}) \subseteq \overline{f(A)}$.	(10)
	(b)	Show that the mapping $(-1, 1) \cong \mathbb{R}$.	(10)
Q.3	(a)	Prove that every metric space is a Tychonoff space.	(10)
	(b)	Prove that $A = \{(x, y) \in \mathbb{R}^2 : x^2 + y^2 = 1\}$ is compact but $B = \{(x, y) \in \mathbb{R}^2 : y^2 = x\}$ is not compact in \mathbb{R}^2 , with respect to the usual topology.	(10)
Q.4	(a)	A space X is a T_0 -space if and only if, for any a, b in X , $a \neq b$ implies $\overline{\{a\}} \neq \overline{\{b\}}$.	(10)
	(b)	Let X be an infinite set with co-finite topology τ on X . Then show that (i) (X, τ) is compact (ii) (X, τ) is connected.	(10)

SECTION-II

Q.5	(a)	Show that the space l^∞ with respect to the norm defined by $\ x\ = \sup_{i=1}^{\infty} x_i $, is a Banach space.	(10)
	(b)	Define the distance from a point x to a subset M of (X, d) and show that $ d(x, M) - d(y, M) \leq d(x, y)$. Also show that the function $f : X \rightarrow \mathbb{R}$, defined by $f(x) = d(x, M)$, is uniformly continuous.	(10)
Q.6	(a)	Give an example of Cauchy sequence of real valued continuous functions defined on a $[-1, 1]$ that converges to a discontinuous function.	(10)
	(b)	(i) Prove that the closure \overline{C} of a convex subset C of a normed space X , is a convex set. (ii) Find the norm of the linear functional $f(x) = \int_{-1}^0 x(t) dt - \int_0^1 x(t) dt$ on $C[-1, 1]$ under the integral norm.	(10)
Q.7	(a)	Prove that the dual space of norm space l^3 is isomorphic to $l^{\frac{3}{2}}$.	(10)
	(b)	If the closed unit ball $\overline{B}(0, 1) = \{x \in X : \ x\ \leq 1\}$ in a normed space X , is compact then prove that X has a finite dimension.	(10)
Q.8	(a)	Prove that the normed space l^∞ is not separable.	(10)
	(b)	For any $a = (a_1, a_2, \dots, a_n) \in \mathbb{R}^n$ define $f_a : \mathbb{R}^n \rightarrow \mathbb{R}$ by $f_a(x) = \sum_{i=1}^n a_i x_i$, $x \in \mathbb{R}^n$ then prove that (i) f_a is linear functional (ii) f_a is bounded (iii) $\ f_a\ = \ a\ $.	(10)
Q.9	(a)	State and prove parallelogram law in a normed space X . Give example of two continuous functions defined on a closed interval that do not satisfy parallelogram law.	(10)
	(b)	Let M be a convex subset of a Hilbert space H , and $\{x_n\}$ be a sequence of M such that $\ x_n\ \rightarrow \inf_{x \in M} \ x\ $. Show that $\{x_n\}$ converges in H . Give an illustrative example in \mathbb{R}^n .	(10)

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