MATHEMATICS

1. If E is any subset of a metric space W then		M then the road of the residence	
	(A) $\overline{E} \subset E$	(B) $E \subset \overline{E}$	
	(C) $E \supset \overline{E}$ (1)	(D) $\overline{E}\supset E^{\text{max}}$ of K speak out (\mathfrak{D})	
2.	If A and ϕ are both open and closed in metric space $\langle A, \rho \rangle$ then A is said to be		
	(A) complete (C) connected	(B) compact (D) closed	
3.	If a subset A of the metric space $\langle M, \rho \rangle$ is totally bounded then A is		
		(B) bounded	
	(C) continuous	(D) closed	
4.	Metric space M is totally bounded if it has of sets.		
	(A) finite number	(B) infinite number	
	(C) countably infinite	(D) None of the above	
5.	The union of an infinite number of closed sets is		
	(A) always open	(B) always closed	
	(C) need not be closed	(D) None of the above	
6.	If A is a closed subset of a compact metric space $\langle M, \rho \rangle$ then A is also		
0.		wis to ans, how mann next	
	(A) complete	(B) connected	
	(C) compact	(D) closed and connected	
7. If the metric space M has a Heine-Borel property then M is			
	(A) Complete	(B) connected	
		(D) closed and connected	
8.	X is a metric space. Y is a closed subset of X such that the distance between at most any two points in Y is 1. Then $\frac{1}{2}$		
	(A) Y is compact (B) any continuous function from Y	R is bounded	
	(C) Y is not an open subset of X	Get Al	
	(D) None of the above	avie away a same a	
		T P.T.O.	