

ASSIGNMENT $B.Sc.6^{th}$ Semester 2020 Mathematics (Major) Paper:MM 601 : Metric Spaces and Statistics

Dat	e: Sept, 2020	Due date-	Max mark: 20
All questions are compulsory			
1.	(a) Let (X,d) be a of open sphere	, metric space. Show that a subset G	of X is open iff G is union (5
	(b) Prove that a m property	netric space is sequentially compact if	f it has Bolzano-Weirstrass (5
2.	(a) A speaks 80% dicting or cont	truth and B speaks 75% truth. Find proversy between A and B in a conver-	the Probability of contra- sation. (5
	(b) Find mean and	d variance of Poission distribution	(5)

Best wishes