Indian Statistical Institute, Bangalore

M.S. (QMS) First Year Second Semester - Reliability, Maintainability and Safety-II

Final Exam		Time: 3 hours	Date:29 /04/2016	Maximum Marks: 50
1.	. ,	ne accelerated life test ain various methods o	ing. of acceleration used in acc	[4 + 4 = 8] celerated life testing.
2.	[3+4 = 7](a) Define a counting process.(b) Explain Homogeneous Poisson process and its properties.			
3.	The time between failures in operating hours of an equipment is as follows: 413, 14, 58, 37, 100, 65, 9, 169, 447, 184, 36, 201, 118, 34. Prepare a plot of average ROCOF against time and offer comments about the process. [8]			
4.	[3+4 = 7 (a) Define maintainability. (b) If the repair time follows exponential distribution, obtain the maintainability function.			
5.	Explain	different types of war	rranty policies.	[5]
6.	(a) r out (b)Progi	nort note on the follow t of n system ressive censoring PP model	ving	[3x5 = 15]