Indian Institute of Technology

School of Management and Entrepreneurship

Minor I Exam: Quality Management (MSL 71500)

Total Marks: 15 Time: 1.00 Hr 1. Every question is compulsory. Q. 1 Compare and contrast the philosophy of Quality Management as proposed by Deming and Crosby. [5] Q. 2 List the SPC tools and explain run, chart, control chart and p chart. [3] Q.3 Determine the average, median, mode, range, and standard deviation for the height of seven people. Data are 1.83, 1.91, 1.78, 1.80, 1.83, 1.85, 1.87 meters. [2] 4) Last week's production numbers on machining center were as follows: Scheduled operation = 10 hours/day; 5 days/week Manufacturing downtime due to meetings, material outages, training, breaks, and so forth = 410 minutes/week Maintenance downtime scheduled and equipment breakdown = 227 minutes/week Theoretical (standard) cycle time = 0.5 minutes/unit Production for the week = 4450 units Defective parts made = 15 units Evaluate Equipment effectiveness. [5]