Quality Control (First Exam 25 %)  Instructor: Dr. Abbas Al-Refaie  Name:  Other Control (First Exam 25 %)  Instructor: Dr. Abbas Al-Refaie  D:  Absence: Farst  Other Control (Spis) Please select the right answer:  Outlity is inversely proportional to waste.  Sensitizing rules are used to decide whether or not one side of the control chart is in control (South of Pareto chart is used to identify potential causes for a specific effect. (A Cause and Effect Control Chart is used to describe variations of a quality response with large data the fact of the control chart is used to extantine costs.  Internal Future Costs and Effect Control Chart is used to extantine a relationship between two variables.  Control charts are effective in defect detection. (A Assignable Causes)  Outlier Control chart is used to examine a relationship between two variables.  Outlier Control charts are effective in defect detection. (A Assignable Causes)  Outlier Control charts are effective in defect detection. (A Assignable Causes)  Outlier Control Charts are effective in defect detection. (A Assignable Causes)  Outlier Control Charts are effective in defect detection. (A Assignable Causes)  Outlier Control Charts are effective in defect detection. (A Assignable Causes)  Outlier Control Charts are effective in defect detection. (A Assignable Causes)  Outlier Control Charts are effective in defect detection. (A Assignable Causes)  Outlier Control Charts are effective in defect detection. (A Assignable Causes)  Outlier Control Charts are effective in defect detection. (A Assignable Causes)  Outlier Control Charts are effective in defect detection. (A Assignable Causes)  Outlier Control Charts are effective in defect detection. (A Assignable Causes)  Outlier Control Charts are effective in defect detection. (A Assignable Causes)  Outlier Control Charts are effective in defect detection. (A Assignable Causes)  Outlier Control Charts are effective in defect detection. (A Assignable Causes)  Outlier Control Charts are effective in defect dete
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Quality is inversely proportional to waste.  Sensitizing rules are used to decide whether or not one side of the control chart is used to identify potential causes for a specific effect. (** Cause and Effect deagram*)  Histograms are used to describe variations of a quality response with large data and the control chart is used to examine a relationship between two variables.  The first are effective in defect detection. (*** Assignable variability is caused by chance causes. (*** Assignable variability is caused by chance cause
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Phase I of the control chart is used to establish trial control chart.  Scatter diagram is used to examine a relationship between two variables.  Control charts are effective in defect detection. (**Assignable causes*)  Assignable variability is caused by chance causes. (**Assignable causes*)  O2 (5 pts) Please state the proper distribution in each of the following cases:  Surface defect produced on an electronic appliance. (**Posson** distribution*)  The life time for a system of independent and exponentially distributed components connected in a standby configuration. (**Camma** distribution*)  The life time of a system of n components which requires at least some components operating. (**Standard**)  The weight of a system of independent components when each is normally distributed with different means and standard deviations. (**Along the bottom**)  The fraction of nonconforming components in a sample of components. (**Pinnich**)  The fraction of nonconforming components in a sample of components. (**Pinnich**)
Assignable variability is caused by chance causes. (-) Chance of independent and exponentially distributed components connected in a standby configuration. (-Camma distribution)  The life time of a system of independent and exponentially distributed components connected in a standby configuration. (-Camma distribution)  The weight of a system of independent components which requires at least some components operating. (Six planta)  The weight of a system of independent components when each is normally distributed with different means and standard deviations. (-Normal distribution)  The fraction of nonconforming components in a sample of components. (Pinantal distribution)
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Q2 (5 pts) Please state the proper distribution in each of the following cases:  Surface defect produced on an electronic appliance. ( Poisson distribution)  The life time for a system of independent and exponentially distributed components connected in a standby configuration. ( Camma distribution)  The life time of a system of n components which requires at least some components operating. ( Camma distribution)  The weight of a system of independent components when each is normally distributed with different means and standard deviations. ( Camma distribution)  The fraction of nonconforming components in a sample of components. ( Pinanial distribution)
Surface defect produced on an electronic appliance. ( - Doisson distribution)  The life time for a system of independent and exponentially distributed components connected in a standby configuration. ( - Gamma distribution)  The life time of a system of n components which requires at least some components operating. ( Standard distribution)  The weight of a system of independent components when each is normally distributed with different means and standard deviations. ( - Normal distribution)  The fraction of nonconforming components in a sample of components. ( - Binarial distribution)
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The fraction of nonconforming components in a sample of components. (-E-1019-00-00-00-00-00-00-00-00-00-00-00-00-00
The time to failure is
and independent components. The time to failure is
(3) (20 pts) A product is composed of live identical and independent components
the main quality response. Consider the following cases: 5-identional and indep.
(a:2pts) If the time to failure is <u>normally distributed</u> with mean 500 hours and standard deviation of 49 hour.  Calculate the probability that the <u>component</u> survive 500 hours.
Calculate the probability that the component survive 300 hours. $P(x = 500) = P(x = 500) = P(x$
= P ( = 500-500 ) 500
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= P(4 = 49)
(IN) = P(#go) = [0.5] }
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/P(ZS) filure P(Z7) =1-P(Z)

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