Q1) List the types of acceptance sampling mentioning which side is of interest. (3marks)
1-outgoing inspection (manufacture side)
2-incoming inspection (costumer side)
3-rectifying (rework, scrap, recycle)
Q2) Three leaders for quality impacted the field. List their names and their major focus areas. (3marks)
<ol> <li>Demings → statistical method of improvement quality continuous improvement.</li> <li>Juran → managerial rule in quality implementation.</li> <li>Armand →organizational structure.</li> </ol>
Q3) Why is it desired to reduce the variability. (6marks)
1-Design and production of inherently safe products.
2-Economics:- a- increased productivity b-increased efficiency c-reduced cost d-greater profit
3-increased competence
4-environmental (reduced waste)
5-legal (avoid litigations and law suits).

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4. (8 marks) the following situations illustrate certain quality dimension or charact In the provided answer box, provide which quality dimension/characteristic is illusin the particular situation.	
a) The seal for a centrifugal pump lasts for two months.	1.57
b) A manufacturer of lithium ion batteries for a certain cell phone developed another type of battery with the same performance but lasting more time.	
c) A certain reactor is designed to achieve 80% conversion. However, the log data indicate that the reactor is operating at 81% conversion.	The death of
d) A polymerization process where it is easy to determine the molecular weight distribution from viscosity measurement.	4
e) A pharmaceutical product based on fermentation and the activity of the fermentation process is to be measured.	1
f) The Jordan Phosphate Mines Co. (JPMC) decided to purify its phosphoric acid from cadmium in compliance with the European standards.	staded
g) Jameed-up Company made a containing a picture of mansaf (national dish yellowish color and labels containing a picture of mansaf (national dish yellowish color and labels containing a picture of mansaf (national dish	his live
in Jordan).  h) It is desired to measure the concentration of uranium in phosphoric	
h) It is desired to measure acid.	1
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