PEPARTMENT OF COMPUTER ENGINEERING FACULTY OF ENGINEERING UNIVERSITY OF BENIN, BENIN CITY, EDO STATE SECOND SEMENTER EXAMINATION (2018/2019 SESSION)

EXTRECTION ANSWER MINIMUM OF FOUR QUESTIONS

There are exactly 25 personal compeners in a software laboratory. The condition of any includes, operating time, room-semperature, dust, vibration, accordica, environment, and prographical location.

Explain the reliability of the 25 personal computers, and state what is considered main important.

for their maintainshifty if some hirdware and software components follow are analyzed for REPLACEAMENT and REPAREABILITY.

- D. Downibe the following parameters of reliability metrics:
 - Failure ente (k)
 - id. Hazaid cuts
 - iti Menn time between failure (MVTF)
 - iv Mean time between maintenance (MTIRE)
 - v Mean time between repair (MTRR)
 - Vi. Mean time between critical failure (MTIME)
 - vii Mean time between operational mission failure (MTBOMF)
- C. Briefly describe four exsential elements of a reliability requirement.
- Hearily describe preventive maintenance for hardware systems and state the draw backs of performing preventive maintenance.

 What are the difference between preventive maintenance and predictive maintenance?
- B. Heiefly describe the following preventive maintenance care party
 - L. Time Boyd Mantenana (TRM)
 - ii. Falling Finding Maintenance (FIM)
 - in Risk Heart Maintenance (RDM)
 - in. Condition Based Maintenance (CBM)
 - v. Corrective Maintenance(CM)

Highlight the objectives of maintenance prevention (MP) and may the stages maintenance prevention (MP) activities are conducted.

Zines Computer Limited are about to produce to mini laptops for a sales promote briefly describe the term "quality control" or the line of production and operations interagement of the process.

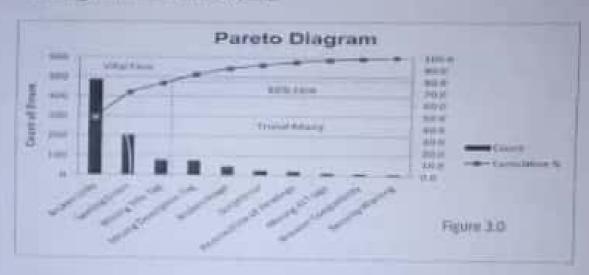
Briefly describe the three man substress in quality assend and highlight the stops in quality control process.

What are the objectives of quality control

What we the benefits of quality control?

SAL

The Head of department (HOD) of computer engineering developed a wabatte for computer Engineering department A Parets analysis on the causes for error on the website is shown in figure 4.0 below. Using the Pareto principle briefly. discum where efforts should be focused to achieve greatest improvement when effecting muintenance on the website.



Briefly discuss the two Causes of Variation in Quality of product in hardware. minimization process.



Herefly discuss any of the following tools for quality control.

- Cause and effect diagram.
- Scatter diagrams
- Histogram.
- Graphs or flow charts.
- Control charts ₩.

CHANGE DRINGS

students of computer engineering decids to set up a company Committee their final past project. The owners segistration and aministration Spectages over Agerties weight by Team Manhair & orbits from Heaters B and C Respond to the product meature. Two seasons down the Line, Two Houses & columnstiy with the five the team the to miscolingment, the frustration was mainly because in frequent



Wher is Capability Manusty Level (CMM)

Last the levels in CMM and succiontly describe them in not more than two actuations Using Case Study L.

Profite the team using CMNC

Suggest how the team can progress so higher levels using CMM.

H A ii. What is software estability

a. What is the difference between notte are reliability and hardware reliability Name arrive of the responsible software fast

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From the perspective of reliability, how is software different from hundreds. Martin and discuss or flower to hability scarce.