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Intro to Engineering & Design EOC Study Guide

Unit 1 – Design Process – 19%

1. How might we create the best possible solution to a problem?
Engineers try to think “outside the box” in order to solve new problems or find ways to improve current solutions.
2. What is the most effective way to generate potential solutions to a problem? How many alternate solutions should you generate?
Brainstorming with a group, research and testing possible solutions
3. What is an engineer? What types of work do engineers do? Engineering is the application of mathematics and scientific principles to better or improve life. An engineer is a person who is trained in and uses technological and scientific knowledge to solve practical problems. Research, Develop, Design, Supervise, Manage, Production and Construction, Operations, Plant management, and Sales.
4. Why Keep an Engineering Notebook? An engineering notebook is recognized as a legal document that is used in patent activities to...
 - a. Prove the origin of an idea that led to a solution
 - b. Prove when events or ideas occurred
 - c. Prove diligence in turning the idea into a solution
 - d. Prove when an idea became a working solution (“reduced to practice”)
5. What are the 4 best Practices for the Engineering Notebook?
 - a. Be Neat,
 - b. be Accurate,
 - c. be Legible,
 - d. be Thorough.
6. Explain the concept of proportion. Paying close attention to the underlying basic shapes and the relative proportions of various features of the object will allow you to more accurately reflect the true shapes and proportions of the object in your sketch.

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ethologists and roboticists in the field today this book is divided into four major parts The first part is written for those with little or no background in the biology of animal behaviour particularly for those coming from an engineering background seeking an accessible introduction to the field and how it can be applied to robotic behaviour Topics include problem solving in animals social cognition and communication visual acoustic olfactory etc The second part is an introduction to the basic construction of robots for non engineers and the possibilities offered by current technical achievements and their limitations to the study of animal behaviour The third part explores the core theme of ethorobotics the basic framework of the discipline the field s evolution and current topics including ethical considerations autonomy to living social robots The fourth and final chapter looks at ethorobotics in practice through key research projects which have had the biggest impact This is a ground breaking interdisciplinary text which will appeal to upper level undergraduates postgraduates and researchers focusing on animal behaviour and cognition as well as those undertaking courses in engineering social robotics biologically inspired robotics AI and human robot and animal robot interactions

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web eine strahlentherapie ist notwendig um lokalisierbaren sichtbaren oder unsichtbaren krebsbefall abzutöten ziel ist es die patienten von der krebserkrankung zu heilen oder bei unheilbaren krebserkrankungen die symptome zu lindern

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