Design Synthesis Exam

‣ Here is your test result.The dots represent the choices you have made.
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contains 5 Questions

✔ **1) Which of the following key considerations is an "-ility" that deals with the human as an integral part of the system?** [Recognize and describe key considerations when designing the system, e.g., interoperability, open systems, modular design, DHS Enterprise Architecture (EA), human systems integration (HSI), reliability, availability, maintainability, affordability, etc.]

◉ **Usability / human systems integration (HSI)**

○ **Availability**

○ **Reliability**

○ **Maintainability**

✔ **2) Detailed, exact statements of particulars for an item to be built, installed, or manufactured are collectively referred to as what?** [Identify what is included in the system specifications]

◉ **Specifications**

○ **Stipulations**

○ **Credentials**

○ **Certifications**

✔ **3) Which of the following is the set of artifacts that defines the final design of the system as it proceeds through development and is the build-to (or code-to) baseline, which results in the physical realization of the system?** [Identify what is included in the Allocated Baseline and Product/Development Baseline]

◉ **Product/Development Baseline**

○ **Logical Baseline**

○ **Allocated Baseline**

○ **Functional Baseline**

✔ **4) Which of the following does NOT describe Design Synthesis?** [Describe the purpose (role and scope) of the Design Synthesis technical process]

◉ **Transforms stakeholder requirements into functional requirements**

◯ Synthesizes previously determined requirements and analyses to design the system

◯ Meets cost, schedule, and performance criteria

◯ Results in an end product that meets stakeholder requirements and expectations

✔ **5) Defining potential solutions is a component of which of the following Design Synthesis process activities?**
[Describe the Design Synthesis Process, i.e., the progression from the system's logical design through preliminary and detailed design]

⦿ Develop alternative design solutions

◯ Select the preferred preliminary design

◯ Develop the detailed design

◯ Baseline the design solution

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