Functional Analysis Exam

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contains 5 Questions

✔ **1) Why is Functional Analysis integral to systems engineering (SE)?** [Explain the role of Functional Analysis in systems engineering (SE)]

◉ During Functional Analysis, the system's logical design is developed from the functional and non-functional requirements.

◯ During Functional Analysis, the system's logical design is developed from the detailed requirements.

◯ During Functional Analysis, the system's physical design is developed from the functional and non-functional requirements.

◯ During Functional Analysis, the system's physical design is developed from the detailed requirements.

✔ **2) Which of the following is a major activity of Functional Analysis?** [Describe the process for transforming functional and non-functional requirements into the system's logical design]

◉ Resolve conflicting requirements

◯ Elicit stakeholder requirements

◯ Document the physical design

◯ Document the stakeholder requirements

✔ **3) Which of the following is a logical model that is commonly included in the system's logical design?** [Identify technologies and tools that can be used to develop a system's logical design]

◉ Timeline Analysis Sheet

◯ Earned Value Management Projections

◯ Requirements Analysis Sheet

◯ Requirements Traceability Matrix

✔ **4) Which requirement is acceptable?** [Describe attributes of acceptable requirements]

◉ The image capture subfunction shall not exceed 5 pounds.

◯ The image capture subfunction shall be lightweight.

◯**The image capture subfunction shall be easy to operate.**

◯**The Rockwell Onboard Camera shall be installed in the system.**

✔ **5) Which is used to trace decomposed requirements to/from the functional/nonfunctional requirements?**
[Explain the vital role of the Requirements Traceability Matrix]

⦿**Requirements Traceability Matrix**

◯**Operational Requirements Document**

◯**Requirements Allocation Sheet**

◯**Requirements Configuration Matrix**

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