Requirements Analysis Exam

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contains 5 Questions

✔ **1) Which type of requirement specifies criteria that can be used to judge the operation of the system, NOT specific functions and behaviors?** [Explain the roles of functional and non-functional requirements in systems engineering]

◉ **Non-Functional**

◯ Functional

◯ Behavioral

◯ Subsystem

✔ **2) The repeated application of Requirements Analysis, Functional Analysis, and Design Synthesis as requirements are being further refined at increasingly-lower levels of the system model is referred to as what?** [Explain the requirements loop]

◉ **Requirements Loop**

◯ **Recursive Loop**

◯ **Reiterative Loop**

◯ **Repeated Loop**

✔ **3) Which of the following is one of the major activities when defining functional/non-functional requirements?** [Describe the process for transforming stakeholder requirements into functional and non-functional requirements]

◉ **Document the requirements**

◯ **Create the logical system models**

◯ **Create the physical system specifications**

◯ **Elicit stakeholder requirements**

✔ **4) In a functional requirement that specifies a required speed of 300 miles per hour (mph), with a goal of 450 mph, what is the 300 mph?** [Explain the role of thresholds and objectives in performance requirements and in establishing trade spaces]

◉ **Threshold**

◯ **Objective**

◯ **Measure of Suitability (MOS)**

◯ **Trade Space**

✔ **5) Which of the following functional requirements is acceptable?** [Recognize attributes of acceptable functional and non-functional requirements]

◉ The video transmission function shall transmit video over distances of at least 5 miles under the following weather conditions: no precipitation, drizzle, rain, snow, and hail.

◯ The video transmission functional shall transmit video over maximum distances in all weather conditions.

◯ The video transmission functional shall transmit video over reasonable distances, under both wet and dry conditions.

◯ The video transmission function shall transmit video over distances of at least 5 miles.

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