

Emerging Technologies and Systems Analysis Reviewer

Information Technology · Practice Test · 15 Questions

1. What is the primary definition of an emerging technology according to Businessdictionary.com?

- A) A technology that is fully mature and widely used globally
- B) New technologies developing over 5-10 years that alter social/business environments
- C) Any technology created in the last 12 months
- D) Hardware that is strictly limited to mechanical components

2. Which of the following is NOT one of the five main characteristics of emerging technologies?

- A) Radical Novelty
- B) Relatively Fast Growth
- C) Static and unchanging applications
- D) Uncertainty and Ambiguity

3. What is the basic unit of information in a quantum computer?

- A) Byte
- B) Qubit
- C) Transistor
- D) Pixel

4. Which stage of the Industrial Revolution introduced electrical systems?

- A) Industry 1.0
- B) Industry 2.0
- C) Industry 3.0
- D) Industry 4.0

5. What is the primary role of a Systems Analyst?

- A) To build hardware servers
- B) To act as a bridge between technical developers and non-technical clients
- C) To manage the company's financial budget
- D) To write marketing copy for the product

6. In the software development lifecycle, what is the main goal of the Analysis phase?

- A) Coding the software
- B) Testing for bugs
- C) Defining what the user needs from the system
- D) Purchasing hardware components

7. Which type of requirement addresses the operational and behavioral quality of a system?

- A) Functional
- B) Non-functional
- C) Hardware
- D) Interface

8. What does a 'Performance Requirement' typically define?

- A) The color scheme of the UI
- B) Speed, capacity, and system availability
- C) The legal jurisdiction of the data
- D) The employee dress code

9. Which requirements-gathering technique involves an intensive, highly structured group workshop?

- A) Interviews
- B) Document Analysis
- C) Joint Application Development (JAD)
- D) Observation

10. In UML Use-Case diagrams, what does the <<include>> relationship signify?

- A) Optional behavior
- B) A mandatory subroutine that must run
- C) Functionality inheritance
- D) The system boundary

11. Which characteristic of a good requirement ensures it does not contradict other statements?

- A) Consistent
- B) Singular
- C) Feasible
- D) Traceable

12. What is the function of a 'Subject Boundary Box' in a UML diagram?

- A) To represent human roles
- B) To declare the system's boundary and scope
- C) To list the project team members
- D) To show the database structure

13. What is the primary benefit of the 'Observation' technique in requirements gathering?

- A) It explains why tasks are performed
- B) It is the fastest way to get statistical data
- C) It verifies whether statements reflect true daily workflows
- D) It eliminates the need for interviews

14. What is the main purpose of the Requirements Definition Report?

- A) To serve as a legal/formal baseline for development
- B) To market the software to potential customers
- C) To provide a training manual for end users
- D) To calculate the total project profit

15. In the context of the 4th Industrial Revolution, what does 'IoT' stand for?

- A) Input of Technology
- B) Internet of Things
- C) Integrated Operational Tools
- D) Internal Organization Task