

2025 Tech & Science Forecast: Quantum Leaps, AI Dominance, and Biotech's

Scientific Discoveries · Practice Test · 10 Questions

1. Which emerging technology is projected to create substantial economic value, estimated between \$450 billion and \$850 billion by 2040, despite current limitations in commercial applications?

- A) Artificial Intelligence
- B) Quantum Computing
- C) Nanotechnology
- D) Synthetic Biology

2. What is the projected market value for the global biotechnology market by 2034, indicating significant growth potential?

- A) Approximately \$1.55 trillion
- B) Approximately \$4.61 trillion
- C) Approximately \$3.88 trillion
- D) Approximately \$521.02 billion

3. According to recent reports, what was the estimated total economic impact of the U.S. bioscience industry in 2023, measured by overall output?

- A) \$3.2 trillion
- B) \$2.3 million
- C) \$3.88 trillion
- D) \$1.55 trillion

4. Which scientific breakthrough is expected to reach the market in 2026, offering improved power conversion efficiencies over existing silicon-based panels?

- A) Alternative battery technologies
- B) Perovskite-silicon solar cells
- C) Cell-free biomanufacturing
- D) CRISPR-edited agriculture

5. What is the projected growth rate for the global nanotechnology market, with a CAGR of 34.7% from 2024 to 2032?

- A) USD 6,838.11 million
- B) USD 74,110.01 million
- C) USD 34.7 billion
- D) USD 118.7 billion

6. Which sector is expected to drive significant growth in the global space economy, with projections reaching \$1.8 trillion by 2035, driven by advancements in communication, navigation, and Earth observation services?

- A) Government space budgets
- B) Commercial space products and services
- C) Space infrastructure development
- D) International government partnerships

7. Between 2015 and 2023, global venture capital investments in AI start-ups tripled. Which specific area of AI saw a substantial increase in investment from 1% in 2022 to 18.2% in 2023?

- A) Robotics
- B) Natural Language Processing
- C) Generative AI
- D) Computer Vision

8. What is the projected compound annual growth rate for the global synthetic biology market from 2024 to 2030?

- A) 18.53%
- B) 28.43%
- C) 20.6%
- D) 15.70%

9. In terms of renewable energy, what milestone is projected to be reached in 2025, where renewables-based electricity generation will overtake coal-fired generation?

- A) Solar PV surpasses wind power generation
- B) Renewables surpass hydropower generation
- C) Renewables-based electricity generation surpasses coal-fired
- D) Wind and solar power generation surpass nuclear

10. Which nation is noted for having an extraordinary innovation efficiency in biotechnology during the 2018-2023 period, despite the United States dominating the overall innovation infrastructure?

- A) Germany
- B) Switzerland
- C) Japan
- D) Canada