

ASEAN's Scientific Frontiers: From AI to Biodiversity and Climate Resilience

ASEAN Science · Answer Key · 15 Questions

1. Which ASEAN country is leading research output in solar photovoltaics, aiming to generate 20% of its electricity from renewable sources by 2025?

- A) Vietnam
- B) Malaysia**
- C) Thailand
- D) Indonesia

2. The ASEAN Centre for Public Health Emergencies and Emerging Diseases (ACPHEED), established in response to the COVID-19 pandemic, has its functions distributed across which three ASEAN countries?

- A) Thailand, Malaysia, and Singapore
- B) Indonesia, Thailand, and Vietnam**
- C) Philippines, Indonesia, and Malaysia
- D) Vietnam, Singapore, and Thailand

3. What is the primary focus of the 'One ASEAN Sea' initiative, aiming to harness regional collaboration for a shared future?

- A) Developing offshore oil and gas exploration
- B) Protecting marine biodiversity and addressing threats like pollution and climate change**
- C) Establishing a regional fishing quota system
- D) Promoting deep-sea mining for rare earth minerals

4. Which of the following is a key pillar of the 'Action Plan on Sustainable Agriculture in ASEAN' adopted in 2024, aiming to enhance productivity while safeguarding the environment?

- A) Increased use of chemical pesticides
- B) Expansion of monoculture farming
- C) Digitalisation, decarbonisation, and reduction of harmful chemicals**
- D) Promotion of genetically modified crops over traditional varieties

5. Indonesia's space agency, formerly LAPAN and now part of BRIN (Badan Riset dan Inovasi Nasional), has launched satellites like LAPAN-A1 and LAPAN-A2 primarily for what purpose?

- A) Deep space exploration and astronomical research
- B) Mapping Indonesia's archipelago for resource management and disaster preparedness**
- C) Developing indigenous rocket launch capabilities
- D) Monitoring international maritime traffic in the South China Sea

6. The ASEAN region is considered the global center for marine biodiversity, often referred to as the 'Amazon of the Seas'. Which specific marine ecosystem is at its core?

- A) The Great Barrier Reef
- B) The Mariana Trench
- C) The Coral Triangle**
- D) The Sundarbans Mangrove Forest

7. In the context of the dual green and digital transition in ASEAN, which technology sector are ASEAN scientists publishing significantly more research on, compared to opto-electronics and photonics?

- A) Nanotechnology
- B) Artificial intelligence and robotics**
- C) Quantum computing
- D) Biotechnology

8. What is a primary goal of the 'ASEAN Climate Change Strategic Action Plan (ACCSAP) 2025-2030'?

- A) To exclusively focus on fossil fuel energy development
- B) To establish a net-zero ASEAN community and accelerate the implementation of Nationally Determined Contributions (NDCs)**
- C) To reduce regional cooperation on climate issues
- D) To prioritize economic growth over environmental sustainability

9. Which country has set an explicit target of 47% renewables in electricity generation by 2030, with 62% of this coming from solar and wind?

- A) Thailand
- B) Indonesia
- C) Malaysia
- D) Vietnam**

10. What is a significant trend observed in the scientific landscape of marine research within the ASEAN region, according to available data?

- A) A decline in international collaboration
- B) A strong focus on freshwater biology over marine species
- C) ASEAN researchers being co-authors on a high percentage of publications involving marine species**
- D) Limited research on commercially important species

11. The ASEAN region is characterized by rich biodiversity, including a significant portion of the world's endemic species. Which of these countries is identified as one of the world's 17 megadiverse nations within the ASEAN region?

- A) Cambodia
- B) Singapore
- C) Philippines**
- D) Laos

12. Regarding the digital transformation in ASEAN economies, the composite CMG indicator integrates which three core dimensions?

- A) Connectivity, market, and governance-sustainability-trust**
- B) Infrastructure, education, and innovation
- C) Trade, investment, and manufacturing
- D) Agriculture, tourism, and services

13. In the context of traditional medicine research in ASEAN, what modern technologies are being embraced to advance scientific understanding?

- A) Only traditional methods of documentation
- B) Big data and artificial intelligence**
- C) Blockchain for supply chain management
- D) Virtual reality for patient consultations

14. Which ASEAN country has been focusing on satellite technology for earth observation and remote sensing, launching satellites like TeLEOS-1 and TeLEOS-2?

- A) Malaysia
- B) Indonesia
- C) Singapore**
- D) Thailand

15. The ASEAN Framework for Cooperation in the Food, Agriculture and Forestry Sector Towards 2045 outlines a vision that includes nurturing farmers' livelihoods and safeguarding the environment. What are the six key strategic thrusts guiding ASEAN's path forward in this sector?

- A) Promoting Sustainable and Regenerative Measures, Enhancing Food Security, Fostering Innovation, Strengthening Regional Trade, Climate Change Adaptation and Mitigation, Promoting Forest Conservation**
- B) Prioritizing Rice Production, Increasing Livestock Exports, Expanding Aquaculture, Reducing Food Waste, Investing in Agri-tourism, Developing Seed Technology
- C) Expanding Land Use for Agriculture, Maximizing Water Resources, Promoting Genetically Modified Crops, Reducing Farmer Subsidies, Encouraging Mechanization, Increasing Pest Control
- D) Focusing on Cash Crops, Developing Palm Oil Industry, Improving Food Processing, Strengthening Halal Food Standards, Promoting Organic Farming, Enhancing Export Markets