

GARP SCR

Sustainability and Climate Risk

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Question: 1

Acknowledging the critical role of horseshoe crab blood in medical advancements, the board of directors for a national government's health department engages specialized consultants to assess the acute and chronic hazards faced by the crab species. In this nuanced evaluation, which of the following hazards do the consultants correctly identify as an acute threat confronting the horseshoe crabs, thus requiring strategic consideration?

- A. Inundation of egg-laying sites due to sea level rise and higher tides
- B. Wind and erosion damage to mating sites due to a late season hurricane
- C. Shifting first frost dates due to global warming
- D. Lack of food source due to dune and coastal grassland migration

Answer: B

Explanation:

hurricane damage is a short-term, acute damage.

Question: 2

In a forward-looking assessment of climate-related regulatory risks for its products and fuels, a chemical manufacturer unveils a risk assessment highlighting the intricate interplay between emissions from production processes and their respective contributions to global warming. Simultaneously, the assessment underscores certain emissions that potentially drive negative radiative forcing (RF). What strategic considerations should the manufacturer adopt in response to this nuanced risk landscape, given the dual facets of emissions contributing to global warming and those influencing negative radiative forcing?

- A. Carbon dioxide absorption in oceans
- B. Halocarbon renewal of the ozone layer
- C. Methane mixing with water vapor
- D. Aerosol interaction with clouds

Answer: D

Explanation:

Aerosols generally have a negative radiative forcing. When aerosols interact with clouds, they can make clouds more reflective.

Question: 3

At an annual shareholder meeting, a Canadian-based vitamin supplier addresses shareholder inquiries about the company's sustainability goals, objectives, and integration into corporate

frameworks, initiatives, and coalitions. Referencing an agenda in existence for over 15 years that incorporates Environmental, Social, and Governance (ESG) considerations into investment decisions, the supplier highlights a framework that seeks ESG disclosure from investee firms. Which specific framework is the supplier alluding to in this disclosure?

- A. Principles for Responsible Investment
- B. Sustainability Accounting Standards Board
- C. Principles for Responsible Banking
- D. Roundtable on Sustainable Palm Oil

Answer: A

Explanation:

PRI (Principles for Responsible Investment) was formed in 2006, and the PRI does indeed incorporate ESG into investments and decisions and the PRI also seeks ESG-related disclosure.

Question: 4

Investing in transportation systems and infrastructure companies on the US Gulf Coast, a hedge fund confronts increased climate-related extreme weather events. To manage climate risks effectively, the fund manager assesses risk transmission into the fund's financial portfolio, utilizing specific data points. What data should the manager utilize to comprehensively understand climate risk transmission within the financial portfolio?

- A. Weather data to confirm the variation of portfolio risk exposure
- B. Topographical maps to assist in the preparation of adaptive measures
- C. Geolocation data on flood defenses to facilitate the distribution of risk
- D. Climate models to help explain the sea level rise and frequent storms

Answer: D

Explanation:

Different climate models will help understand physical hazards such as the sea-level rise and frequent storms.

Question: 5

Expanding the use of climate scenario analysis in pricing and developing insurance products, a large insurer in South America hires an actuary with climate expertise. The actuary incorporates information from Shared Socioeconomic Pathways (SSPs) and Representative Concentration Pathways (RCPs) into the risk modeling process. How should the actuary describe the relationship between SSPs and RCPs in the context of risk modeling?

- A. Combined SSP and RCP emissions trajectories typically show similar emission trends compared with pure RCP trajectories

- B. Each SSP aligns with one specific RCP.
- C. C. SSPs will gradually replace RCPs in IPCC assessments by integrating the latter's underlying data and assumptions.
- D. D. SSPs provide alternative emission pathways to RCPs.

Answer: A

Explanation:

Combined SSP-RCP trajectories (solid lines) follow similar paths as RCP trajectories throughout the rest of the century.

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