

4. It is a vital component of the global ocean nutrient and carbon dioxide cycles as it provides them to the nutrient deficit warm waters.

Which of the above statements are correct?

- (a) 1 and 2 only
- (b) 3 and 4 only
- (c) 1, 3 and 4 only
- (d) 1, 2, 3 and 4

34. Which of the following statements regarding the Coral reefs is/are **incorrect**?

- 1. Coral are found only in the shallow tropical and subtropical waters as they need photosynthesis to survive.
- 2. Zooxanthellae, the symbiotic organism with the corals, provide carbon skeleton as well as the colour.
- 3. Coral reefs protect coastlines from storms and erosion.

Select the correct option using the codes given below:

- (a) 1 and 2 only
- (b) 2 only
- (c) 3 only
- (d) None of the above

35. Consider the following statements regarding Monsoon deciduous forest biome:

- 1. Monsoonal vegetation is the most varied, ranging from forests to thickets, and from savanna to scrubland.
- 2. They develop in the climate where a long dry season is followed by a season of heavy rainfall.

Which of the above statement is/are **incorrect**?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

36. Which of the following pairs regarding regional Mediterranean shrubs and their locations are correctly matched?

- 1. Matorral: Chile
- 2. Maquis: Australia

- 3. Fynbos: Southern Europe
- 4. Chaparral: California

Select the correct option using the codes given below:

- (a) 1 and 2 only
- (b) 1 and 4 only
- (c) 3 and 4 only
- (d) 1, 2, 3 and 4

37. Consider the following statements regarding the Taiga biome:

- 1. It is the world's largest terrestrial biome.
- 2. The soil beneath the biome often contains permafrost which prevents water from draining from the top layers of soil.
- 3. Mosses, lichens, and mushrooms cover the floor of this biome instead of shrubs and flowers.

Which of the above statements is/are correct?

- (a) 1, 2 and 3
- (b) 2 and 3 only
- (c) 1 only
- (d) 1 and 3 only

38. Consider the following statements regarding Factors of forest development:

- 1. Forests can develop wherever the average temperature is greater than 10 °C in the warmest month.
- 2. The different climatic conditions decide the types and distribution of the forests.

Which of the above statements are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

39. With reference to the significance of the forests, consider the following statements:

- 1. Forests are the world's largest storehouses of carbon.
- 2. They serve as a buffer in natural disasters like flood and rainfalls.
- 3. They are home to 80% of the world's terrestrial biodiversity.