

1. 次の英文を読み、それに続く設問 A-1 から A-5 までに答えなさい。解答は、それぞれの設問に続く選択肢 1 から 3 までの中から、答えとして最も適切なものを一つずつ選び、その番号のマーク欄を塗りつぶしなさい。

Hurricanes of the future are likely to become even more destructive, and the reason is rising ocean temperatures. At least, this is the conclusion of new research published in the journal *Nature*.

Kerry Emanuel, from the Massachusetts Institute of Technology, reviewed about five decades of hurricane and typhoon data. He found that both the length of the storms and their wind speeds had increased by 50 percent.

Hurricanes form over tropical waters and gain strength from heat released when water falls back to Earth in heavy tropical rains. However, the damage caused by hurricanes is not limited to tropical areas. Indeed, Emanuel predicts that future hurricanes will cause more damage to populated coastlines outside the tropics. The research found a strong link between the growth in hurricane power and sea surface temperature. He concludes that the temperature rise in the sea is due to both man-made global warming and natural ocean-temperature variations.

The surface temperature of tropical oceans has increased by about 0.5 degrees Celsius over the last 50 years. Previous research has largely ignored the effects of this temperature rise because it was thought to be too small to be important. Emanuel noted that his study found no evidence that global warming had increased the frequency of hurricanes.

<注> decade 10年間 predict ~を予測する populated 人の住む

(設問)

A-1 What is the main conclusion of the new research?

1. A rise in sea levels is producing more destructive hurricanes.
2. More destructive hurricanes are the cause of rising ocean temperatures.
3. Higher ocean temperatures may cause more destructive hurricanes in the future.

A-2 What did Kerry Emanuel discover from his review of hurricane and typhoon data?

1. The hurricanes of about fifty years ago were about twice as powerful as those of today.
2. The storms of today are much longer and more powerful than those of about fifty years ago.
3. There were half as many hurricanes about fifty years ago as there are today.

A-3 Where does Kerry Emanuel say that hurricane damage of the future will occur?

1. There is likely to be more damage in areas near the sea where people live.
2. Heat rather than heavy rain will cause most damage in seaside towns and villages.
3. Hurricanes will only cause damage in tropical areas.

A-4 According to Kerry Emanuel, how is the rise in sea temperatures being caused?

1. Global warming is the main cause of the rise in ocean temperatures.
2. The rise in ocean temperatures is a purely natural process.
3. The reasons for the higher ocean temperatures are not only man-made but also natural.

A-5 What does the new research tell us about the frequency of hurricanes?

1. The research found no link between global warming and the number of hurricanes.
2. The research predicts that the number of hurricanes will decrease in the future.
3. The research concludes that the effects of global warming will be very small.

2. 次の英文 A-6 から A-9 までは、航空通信に関する国際文書の規定文の趣旨に沿って述べたものである。この英文を読み、それに続く設問に答えなさい。解答は、それぞれの設問に続く選択肢 1 から 3 までの中から、答えとして最も適切なものを一つずつ選び、その番号のマーク欄を塗りつぶしなさい。

A-6 All stations shall radiate the minimum power necessary to ensure a satisfactory service.

(設問) What power level must a station use?

1. A station must use the minimum power even if the service is poor.
2. A station must use the lowest power output necessary to provide an adequate service.
3. The minimum number of stations must radiate the power for a necessary service.

A-7 Messages having the same priority should, in general, be transmitted in the order in which they are received for transmission.

(設問) In what order should messages usually be transmitted if the messages have the same priority?

1. The message received most recently should be sent first.
2. The message received first should be sent first.
3. The message received last should be sent as soon as it is received.

A-8 If a message has not been completely transmitted when instructions to cancel are received, the station transmitting the message shall instruct the receiving station to disregard the incomplete transmission.

(設問) What must a sending station do when receiving instructions to cancel an incomplete transmission?

1. The station must tell the receiver to ignore the transmission.
2. The station must continue to transmit the message until it is complete.
3. The sender of any incomplete messages must instruct the receiving station to transmit them back.

A-9 A telecommunication log, written or automatic, shall be maintained in each station of the aeronautical telecommunication service except that an aircraft station, when using radiotelephony in direct communication with an aeronautical station, need not maintain a telecommunication log.

<注> log 日誌

(設問) When must a telecommunication log be kept?

1. All aircraft stations must always keep a telecommunication log.
2. An aircraft station does not always have to keep a telecommunication log, but all other stations of the service must do so at all times.
3. Telecommunication logs must always be maintained for all direct communication with an aeronautical station.

3. 次の設問 B-1 の日本文に対応する英訳文の空欄（ア）から（オ）までに入る最も適切な語句を、その設問に続く選択肢 1 から 9 までの中からそれぞれ一つずつ選びなさい。解答は、選んだ選択肢の番号のマーク欄を塗りつぶしなさい。

（設問）

B-1 ブリザードは、激しい雪嵐である。人々は、ブリザードの間は屋内にとどまり、絶対に必要な旅のみを行うべきである。

A blizzard is (ア) snow storm. People should (イ) indoors (ウ) a blizzard and only make (エ) that are (オ) necessary.

- | | | |
|-------------|---------------|----------------|
| 1. a severe | 2. absolutely | 3. during |
| 4. hardly | 5. journeys | 6. perfect for |
| 7. stay | 8. travel | 9. within |

4. 次の設問 B-2 の日本文に対応する英訳文の空欄（ア）から（オ）までに入る最も適切な語句を、その設問に続く選択肢 1 から 9 までの中からそれぞれ一つずつ選びなさい。解答は、選んだ選択肢の番号のマーク欄を塗りつぶしなさい。

（設問）

B-2 救助隊は、山岳地帯に墜落したかもしれない 92 人を乗せた行方不明の飛行機の搜索を再開するために準備を進めている。

Rescue parties (ア) (イ) to resume the (ウ) the missing plane with 92 people (エ) that may have (オ) on the mountain.

- | | | |
|-------------------|---------------|--------------|
| 1. abroad | 2. are | 3. crashed |
| 4. fell overboard | 5. get ready | 6. on board |
| 7. preparing | 8. search for | 9. searching |

5. 次の設問 B-3 の日本文に対応する英訳文の空欄（ア）から（オ）までに入る最も適切な語句を、その設問に続く選択肢 1 から 9 までの中からそれぞれ一つずつ選びなさい。解答は、選んだ選択肢の番号のマーク欄を塗りつぶしなさい。

（設問）

B-3 どの遭難航空機も、その航空機を救助することができる陸上局又は移動局が聴守している周波数で遭難呼出しを送信する。

Any aircraft (ア) shall (イ) the distress call on the frequency on which watch is (ウ) by the land or mobile stations (エ) (オ) helping it.

- | | | |
|-------------------|----------------|-------------|
| 1. be sent | 2. can | 3. capable |
| 4. for distressed | 5. in distress | 6. kept |
| 7. of | 8. to | 9. transmit |