

第二級総合無線通信士「英語」試験問題

5問 1時間30分

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黒く塗りつぶしなさい。

The historic, aging ocean liner that a Florida county plans to turn into the world's largest artificial reef has completed the first leg of its final voyage. The SS United States, a 305-meter vessel that shattered the trans-Atlantic speed record on its maiden voyage in 1952, arrived early Monday in Mobile, Alabama, nearly two weeks after departing from south Philadelphia's Delaware River. The ship was due to arrive at a repair facility in Mobile later Monday. Crews will spend about six months cleaning and preparing the ship before it is eventually sunk off Florida's Gulf Coast.

The 2,897-kilometer move south started on Feb. 19, about four months after a years-old rent dispute was resolved between the conservancy that oversees the ship and its landlord. Plans to move the vessel last November were delayed over U.S. Coast Guard concerns about whether the ship was stable enough to make the trip. Officials in Okaloosa County on Florida's coastal Panhandle hope the ship will become a barnacle-encrusted standout among the county's more than 500 artificial reefs and a signature diving attraction that could generate millions of dollars annually in local tourism spending for scuba shops, charter fishing boats and hotels.

The SS United States was once considered a beacon of American engineering, doubling as a military vessel that could carry thousands of troops. Its maiden voyage broke the trans-Atlantic speed record in both directions when it reached an average speed of 36 knots, or just over 66 kph, one of the major US newspapers reported from aboard the ship. The ship crossed the Atlantic Ocean in three days, 10 hours and 40 minutes, besting the RMS Queen Mary's time by 10 hours. To this day, the SS United States holds the trans-Atlantic speed record for an ocean liner. The SS United States became a reserve ship in 1969 and later bounced between various private owners who hoped to redevelop it. They eventually found their plans too expensive or poorly timed, leaving the vessel for years on south Philadelphia's Delaware River waterfront.

<注> shatter 打ち砕く maiden voyage 処女航海 conservancy 保存団体 oversee 監督する
landlord 家主(停泊地の所有者) barnacle フジツボ encrust 覆う standout 素晴らしい物

(設問)

A-1 How does the Florida county plan to create a large artificial reef off Florida's Gulf Coast?

1. The county is going to have the historic, aging ocean liner sunk to the sea bottom.
2. The county has asked the SS United States to bring the world's largest reef from the shore.
3. The county will make the SS United States collect large reefs to create the world's largest artificial reef.

A-2 Why was the departure of the SS United States, originally set for November, delayed?

1. Because the rent dispute between the conservancy and the landlord had not been resolved
2. Because U.S. Coast Guard needed to confirm the vessel was capable of completing the voyage
3. Because the vessel had to be repaired at the repair facility near south Philadelphia's Delaware River

A-3 What do officials in Okaloosa County hope for when the world's largest artificial reef is realized?

1. They hope for a large boost in local tourism which will generate millions of dollars every year.
2. They hope for revenue increases for scuba shops and fishing boats, but expect no such increase for hotels.
3. They hope for revenue increases for scuba shops and hotels, but expect no such increase for fishing boats.

A-4 Which ocean liner held the trans-Atlantic speed record at the time the above article was written?

1. The RMS Queen Mary
2. The SS United States
3. Neither the SS United States nor the RMS Queen Mary held the record.

A-5 Why did various private owners of the SS United States fail to redevelop the vessel?

1. Because a county in Philadelphia strongly opposed any modifications to the vessel
2. Because the vessel already had high-performance engines and advanced operability
3. Because either their plans were too expensive or the moment was wrong, or both

2. 次の英文A-6からA-9までは、無線通信業務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黒く塗りつぶしなさい。

A-6 During flight, aircraft stations shall maintain watch as required by the appropriate Authority and shall not cease watch, except for reasons of safety, without informing the aeronautical station(s) concerned.

(設問) In what situations may aircraft stations cease watch as required by the appropriate Authority?

1. They are allowed to maintain watch only for reasons of safety.
2. They must not inform the aeronautical station(s) that they will cease watch for safety reasons.
3. They may generally cease watch if they notify the aeronautical station(s) concerned prior to doing so.

A-7 An aeronautical station having traffic for an aircraft station may call this station if it has reason to believe that the aircraft station is keeping watch and is within the designated operational coverage area of the aeronautical station.

(設問) In which of the following situations is an aeronautical station allowed to call an aircraft station?

1. The aeronautical station can only make a call after it has received a call from the aircraft station and established the communication link.
2. When the aeronautical station having traffic has reason to be confident that aircraft station is keeping watch within its designated coverage area, it is permitted to make a call.
3. When the aeronautical station has reason to believe the aircraft station is keeping watch within its designated coverage area, it may call the aircraft station regardless of whether it has traffic to deliver.

A-8 When transmitting digital selective calls and acknowledgements in the bands between 415 kHz and 526.5 kHz, coast stations should use the minimum power necessary to cover their service area.

(設問) Which of the following is correct with regard to the power coast stations may use for digital selective calls and acknowledgements in the band between 415 kHz and 526.5 kHz?

1. The transmitting power of coast stations should be as low as possible for covering their service area.
2. The coast station should use its maximum power to ensure all ship stations receive the transmission.
3. When the frequency stability is being kept in the band between 415 kHz and 526.5 kHz, coast stations can transmit digital selective calls and acknowledgements with any power they like.

A-9 There shall be available at all times, while the ship is at sea, a supply of electrical energy sufficient to operate the radio installations and to charge any batteries used as part of a reserve source or sources of energy for the radio installations.

(設問) According to the above regulation, what is the requirement for the electrical power supply of the ship to be available at all times while the ship is at sea?

1. It should be adequate to supply power for the operation of the radio installations which are normally operated on batteries.
2. The supply of electrical energy should be sufficient to operate the radio installations and charge batteries while the ship is moored.
3. It should be adequate to charge any batteries for a reserve source or sources of energy for the radio installations in addition to providing sufficient support for operation of the radio installations.

3. 次の設問B-1の日本語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黒く塗りつぶしなさい。

（設問）

B-1 日本政府は、大災害や感染症の発生時に洋上で医療活動を行う病院船の導入計画を決めた。その計画では、暫定的に既存の民間船舶を活用して、被災地から患者を搬送し医療活動を行うとしている。

The Japanese government has adopted a program for the (ア) of hospital ships to provide medical care at sea in the (イ) of a major disaster or (ウ) disease. The program calls for temporary use of (エ) private-sector ships to transport (オ) from disaster zones and provide medical care.

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|-----------------|-----------------|---------------|
| 1. construction | 2. event | 3. existing |
| 4. infectious | 5. introduction | 6. passengers |
| 7. patients | 8. place | 9. present |

4. 次の設問B-2の日本語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黒く塗りつぶしなさい。

（設問）

B-2 ドイツのスタートアップ企業が今、業界に革命を起こそうとしている。その企業のプラントは、グリーン水素を用いて地元の水処理施設の廃水から抽出されるバイオガスを持続可能な燃料であるメタノールに変換する。世界初となるそのような生産施設が今週南ドイツのマンハイムで稼働を開始した。

A German start-up now (ア) to revolutionize the industry. Its plant uses green (イ) to (ウ) biogas extracted from wastewater in the local water treatment facility into methanol, a sustainable fuel. The first production (エ) of its kind in the world began (オ) in the southern German city of Mannheim this week.

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|-------------|----------------|--------------|
| 1. aims | 2. convert | 3. facility |
| 4. hydrogen | 5. office | 6. operation |
| 7. oxygen | 8. preparation | 9. reform |

5. 次の設問B-3の日本語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黒く塗りつぶしなさい。

（設問）

B-3 遭難警報は、遭難の性質、必要とされる救助の形式、移動体の針路及び速度、情報が記録された時刻及びその他の救助を容易にするであろう如何なるものについての情報をも含むことができる。

A distress alert may (ア) information (イ) the nature of the distress, the type of assistance (ウ), the course and speed of the (エ) unit, the time that this information was (オ) and any other information which might facilitate rescue.

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|--------------|--------------|--------------|
| 1. contain | 2. excluding | 3. expressed |
| 4. mobile | 5. obtain | 6. recorded |
| 7. regarding | 8. remote | 9. required |