ERA 002

航空無線通信士「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塗りつぶしなさい。

European aerospace company EADS Astrium announced plans for a jet designed to take tourists into space on Wednesday. A full-scale model of the craft was displayed in Paris. Paying passengers will be able to fly at altitudes of up to 100km above the earth's surface. Astrium said it hoped the space jet ― which looks much like a conventional aircraft though it is outfitted with rocket engines ― will be operational by next year. The first flight is scheduled for 2012.

Tickets are expected to sell for $200,000 to $265,000, said the company. The space jet would take off using conventional jet engines. Upon reaching an altitude of about 12km, the pilot would ignite the rocket engines, sending the craft shooting to an altitude of 60km in 80 seconds. The engines would then be shut down and inertia would carry the craft to its final altitude. There, passengers would be able to gaze down on earth and experience weightlessness for three minutes. Only four passengers would travel on each $1\frac{1}{2}$ hour-long flight, the company said. The craft will be equipped with special balancing seats to reduce the powerful effects of takeoff and landing.

Astrium head, Francois Auque, told reporters the company expects to secure several hundred million euros in funding for the project by the end of the year. Most of the money is to come from private investors, although governments, like that of the southern German state of Bavaria where the engines are to be produced, may also take part. "We are counting on some 20,000 space tourists by the year 2020," said Auque. "We want to serve a third of them. We have faith in this market."

＜注＞ ignite 点火する　inertia 慣性

(設問)

A-1 What is special about the jet designed by the European aerospace company EADS Astrium?

1. It will be the most expensive jet aircraft ever produced.
2. It will be used for carrying tourists into space.
3. It will be the first aircraft built in Europe to fly into space.

A-2 What does the jet look like?

1. It looks wholly unlike any other aircraft.
2. The design of the aircraft is still a secret.
3. It has the appearance of a normal jet aircraft except for the rocket engines.

A-3 How long would a tourist flight on the new jet last?

1. Each flight would take around ninety minutes.
2. The shortest flights would take only eighty seconds.
3. The average length of a flight would be three minutes.

A-4 How will the company pay for the development of the aircraft?

1. Most of the money will come from the government of Bavaria.
2. The money will come from a combination of public and private sources.
3. All the money will come from private investors.

A-5 What does Francois Auque say about the future of space tourism?

1. The future is very uncertain and highly risky.
2. He is confident that this market will grow in the near future.
3. He does not expect the market to become profitable until after 2020.

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　In order to reduce interference, aircraft stations shall, within the means at their disposal, endeavor to select for calling the band with the most favorable propagational characteristics for effecting reliable communication.

＜注＞ within the means at their disposal　任意の方法で　propagational characteristics　伝搬特性

(設問) What should aircraft stations do to reduce interference?

1. Aircraft stations should do their best to find the band that is most effective for communication.
2. Aircraft stations should endeavor to use their usual band as this is normally the most reliable one.
3. Aircraft stations should use any band that is available for communication.

A-7　The service of an aeronautical station or an aeronautical earth station shall be continuous throughout the period during which it bears responsibility for the radiocommunication service to aircraft in flight.

(設問) What must an aeronautical station do while responsible for radiocommunication to aircraft in flight?

1. A station must maintain a service for most of the required period.
2. A station must maintain a service all times while it is responsible for such communication.
3. A station must not provide a continuous service for aircraft at any time.

A-8　The user of the air-to-air VHF communications channel shall ensure that adequate watch is maintained on designated ATS frequencies, the frequency of the aeronautical emergency channel, and any other mandatory watch frequencies.

(設問) On which of the following frequencies is the user of the air-to-air communications channel responsible for keeping watch?

1. The user of the air-to-air communications channel is responsible for keeping an adequate watch on all ATS frequencies.
2. The user of the air-to-air communications channel shall have the option of keeping watch on the aeronautical emergency channel.
3. The user of the air-to-air communications channel is responsible for maintaining watch on a number of essential frequencies.

A-9　The distress communications have absolute priority over all other communications, and a station aware of them shall not transmit on the frequency concerned, unless:

a) the distress is canceled or the distress traffic is terminated;

b) all distress traffic has been transferred to other frequencies.

(設問) Under what circumstances may a station transmit on a frequency that is being used for distress communications?

1. A station may use a frequency being used for distress communication if the distress traffic has either ended or been moved to another frequency.
2. A station must not use frequencies used for distress communications at any time.
3. A station may do so if it needs to make any other category of important communications on the frequency.

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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　日本宇宙航空研究開発機構は、初めての月探査機を日本の昔話に登場する姫の名前にちなんで、「かぐや」と愛称をつけた。この「かぐや」は日本の H2A ロケットに搭載され、昨年9月に鹿児島の種子島宇宙センターから打ち上げられた。

Japan Aerospace Exploration Agency (　**ア**　) its first (　**イ**　) explorer "Kaguya" (　**ウ**　) a princess in an ancient Japanese (　**エ**　). "Kaguya" (　**オ**　) on a Japanese H2A rocket from Tanegashima Space Center in Kagoshima in September last year.

1. after	2. before	3. carried
4. folktale	5. has nicknamed	6. has ordered
7. lunar	8. solar	9. was launched

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　こちらは東京行き 785 便です。本機は羽田空港から 50 マイルの位置にあります。羽田空港への到着は天候不良のため、到着予定時刻より 20 分程度遅れる見込みです。地上の気象状況を知らせてください。

This is Flight 785 to Tokyo. We are 50 miles (　**ア**　) from Haneda Airport. We (　**イ**　) to arrive about 20 minutes (　**ウ**　) our ETA (　**エ**　) of the bad weather. Please inform us (　**オ**　) the weather conditions on the ground.　**＜注＞ ETA = (略)estimated time of arrival**

1. away	2. because	3. behind
4. expect	5. extend	6. of
7. prior to	8. way	9. with

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　旅客機の乗務員は、運航乗務員と客室乗務員から構成されている。特に、機長は飛行中の航空機の安全な運航だけでなくすべての乗客の安全についても責任を負っている。

The crew of a passenger aeroplane (　**ア**　) **both** cockpit and cabin crew. The captain is, in (　**イ**　), (　**ウ**　) not only for the safe operation of the aircraft (　**エ**　) also for the safety of all passengers (　**オ**　) a flight.

1. but	2. consists of	3. during
4. except	5. favorable	6. makes up
7. particular	8. responsible	9. special