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なさい．

AFP 3D VIDEOGRAPHIC WINS ASIAN DIGITAL PUBLISHING INNOVATORS FIRST PRIZE

The World Association of Journalists and Press Editors has awarded an AFP videographic first prize in the category "best online animated graphic" at the Asian Conference on Digital Media in Hong Kong.

Twenty-one newspapers,　magazines and television stations won awards in categories including: best Internet site, video, cross-media, cross-media advertising, best publication for mobile and tablet computer, best use of social media and best animated graphic, the category in which AFP won first prize with a 3D videographic featuring a reconstitution of the crash of an Air France flight from Rio de Janeiro to Paris, produced by Stephane Koguc and edited by Elise d'Epenoux and Volkmar Meier At around 2 am on the morning of June 1st 2009, all 228 passengers on board an overnight Air France flight from Rio de Janeiro to Paris lost their lives when the plane crashed in mid-Atlantic. It took just three minutes from the first sign of trouble as the air speed dropped, until the Airbus 330 went down in the sea after falling from a cruising altitude of about 35,000 feet.

The 3D videographic created in Paris showed how the catastrophe unfolded, second by second, highlighting the technical and human failings at the origin of the tragedy.
The graphic was a realistic recreation of the final exchanges between the flight crew, as revealed by the black box flight recorder, and a commentary based on objective facts drawn from the French Civil Aviation Bureau of Inquiry report. The result was a virtual reportage which captured the full drama and extent of the catastrophe, as well as the speed with which it unfolded Part of the AFP Graphics service, the Animation department produces daily graphic animations in Flash and video formats, and since February 2011 is producing an animation in 3D once a week. Subjects in the news are presented in a clear, lively and informative fashion, producing a reconstitution of the facts or an illustrated chronology, for example, available to clients in audiovisual, digital and mobile formats.

【出典】

https://www.afp.com/en/agency/press-releases-newsletter/afp-3d-videographic-wins-asian-digital-publishing-innovators-first-prize

A-1　Where was the Asian Conference on Digital Media held?
1.　It was held in an international region of China.
2.　It was originated in Rio de Janeiro.
3.　It was held at The World Association of Journalists and Press Editors.

A-2　Which is mentioned as a category for the awards?
1.　best stuffed animals

2. best vocal performance on stage

3. best use of animation

A-3 Which expression can be the most suitable substitute for "highlighting"?

1. disregarding

2. focusing on

3. altering

A-4 Why was AFP's 3D videographic featuring the Air France flight cash awarded?

1. Because of its beautiful visual effects according to the black box.

2. Because of its well-made representation of the final interactions between the flight crew based on the black box.

3. Because of its vivid report regarding unimaginable human errors caused by the black box.

A-5 What does the AFP Animation Department regularly do?

1. It publishes a three-dimensional animation.

2. It creates information on fashion.

3. It distributes illustrated newspaper.

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，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なさい．

A-6 While ICAO does not approve world flight routes for international air traffic, it is instrumental to facilitating the cooperation and information needed to do so.

（設問）What does ICAO do to make international flight routes?

1. It finalizes them with approval.

2. It helps them to be finalized in cooperation.

3. It informs air traffic of flight routes.

A-7 The primary purpose of air traffic control all over the world is not only to prevent collisions but to organize and expedite the flow of air traffic, and provide pilots with necessary information and other support.

（設問）What is the purpose of ATC from a view of passengers?

1. Providing Information and support.

2. Risk avoidance and well-organized flight control.

3. Safety and fast flight time.

2

A-8 Air traffic control operations are conducted either in the English language or the language used by the station on the ground. In practice, although the native language for a region is normally used, the English language must be used upon request.

（設問）Why must air traffic controllers have a good command of English?

1. Because all the pilots speak English.
2. Because they have to use it as soon as they are requested to do so.
3. Because they cannot speak their mother tongue for communication.

A-9 The primary method of controlling the immediate airport environment is visual observation from the control tower, which is a tall, windowed structure located on the airport grounds. Tower controllers are responsible for the separation and efficient movement of aircraft and vehicles operating on the taxiways and runways of the airport itself, and aircraft in the air near the airport.

（設問）How should tower controllers conduct their duties from the tower?

1. By contacting airplanes and vehicles frequently.
2. By counting the number of airplane and vehicles in sight.
3. By watching the locations and movements of airplanes and vehicles carefully.

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.

（設問）
B-1 ＮＡＳＡの技術者達は，最近，火星の表面上を飛行するように設計された無人飛行機の原型をテストした．ＮＡＳＡは，埃っぽい大気中から表面の地図を作製するために，2007 年のある時期に，赤い惑星に飛行機を一機または複数送る計画を立てている．地球よりも希薄な大気である火星での飛行条件をシミュレーションするために，技術者達は，高度での機体の空力性能をテストした．

Engineers from the National Aeronautics and Space Administration recently tested a prototype of an unmanned plane （　ア　）to fly over the surface of Mars. NASA is （　イ　）to send an airplane or airplanes to the red（　ウ　）sometime in the year 2007 to make a map of the surface from its dusty atmosphere. In （　エ　） to simulate flying conditions on Mars, which has a much thinner atmosphere than Earth does, the engineers tested the plane's aerodynamic（　オ　）at a very high altitude.

1. asteroid　　2. appointed　　3. planning　　4. preparing
5. order　　6. performance　　7. planet　　8. purpose　　9. designed

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　オーロラはネオンサインのような働きをする．電流がガスを通る際に光を放つのである．道路の照明灯ではガスはナトリウム蒸気かもしれないし，看板ではネオンだろう．北方の空では，それは主に酸素であり，緑と赤になるし，時々バイオレットになるのは窒素があるからだ．電気は太陽フレアでやって来る．太陽系に電子パルスの流れを送り出すものだ．それが地球に到達すると，地球の磁場がそれをとらえ，そして模様へと変換する．

The aurora works like a neon sign, which lights up when an electrical　（　ア　）　passes through a gas. In a street light, the gas might be sodium vapor; in a bar sign, neon. In the northern sky, it is largely （　イ　）, which produces the greens and reds, with nitrogen behind the　（　ウ　）　violet.　The electricity comes from solar flares, which send pulses of electrons streaming through the solar system.　When they（　エ　）Earth, its magnetic　（　オ　）traps them and forms them into patterns.

1.　air　　　2.　oxygen　　　3.　occasional　　　4.　hydrogen
5.　field　　　6.　catch　　　7.　irregular　　　8.　reach　　　9.　current

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．

（設問）
B-3　一般的に空地無線電話通信は，地上局が通常使用する用語で行うものとする．地上局が通常使用する言語は，必ずしも同局が所在する国の言語であるとは限らない．航空無線電話通信において世界的に使用するためより適した形態の言語が開発されかつ採択されるまでの間，英語を使用するものとする．

（　ア　）, the air –ground radiotelephony communications should be（　イ　）in the language normally used by the station on the ground. The language normally used by the station on the ground may not （　ウ　）be the language of the State in which it is　（　エ　）. Pending the development and adoption of a more suitable form of speech for　（　オ　）use in aeronautical radiotelephony communications, the English language should be used.

1.　need　　　2.　in general　　　3.　remembered　　　4.　approved
5　in public　　　6.　conducted　　　7.　international　　　8.　necessarily　　　9.　located