

(問題用紙 1)

平成31年度入学試験問題 英語

- ◎ 英語の試験問題は5枚綴りになっています。
- ◎ 解答は必ず解答用紙に記入すること。

I. 次の英文の空所に入れるのに最も適切なものを、(ア)～(エ)の中から一つ選び、その記号をマークしなさい。大文字と小文字の区別は考慮しないこと。

- (1) The discovery of yachtsmen (1) in the waters around our coast will be made not by ships or helicopters, but by drones.
 (ア) flown (イ) inaugurated (ウ) pulled (エ) stranded
- (2) Drones, sometimes called (2) aerial vehicles, will soon affect our everyday lives.
 (ア) unmanned (イ) unnoticed (ウ) unrestrained (エ) unsubstantiated
- (3) His team says that he will be cleared to practice once the pain (3).
 (ア) precedes (イ) concedes (ウ) recedes (エ) accedes
- (4) The incident drew a harsh (4) across the country, prompting the government agency to launch an inquiry.
 (ア) backdrop (イ) backlash (ウ) backslap (エ) backbeat
- (5) Joe, I don't think you can (5) cream with a spoon. Just use a whisk.
 (ア) beat (イ) chop (ウ) hash (エ) mash
- (6) The government officials strongly disagreed with the decision to permanently (6) the agency.
 (ア) disembark (イ) disaccord (ウ) disestablish (エ) discover
- (7) Tomorrow, the company will (7) its annual meeting.
 (ア) convolve (イ) convict (ウ) convoy (エ) convene
- (8) Our committee's official (8) was to examine institutional responses to historical claims of abuses.
 (ア) maturity (イ) mandate (ウ) malevolence (エ) manipulation
- (9) The wording in the memorandum was left intentionally vague to head (9) any criticism from detractors.
 (ア) under (イ) off (ウ) out (エ) over
- (10) This series of textbooks began to (10) its way into classrooms all over Japan.
 (ア) catch (イ) develop (ウ) cultivate (エ) find

II. 次の各日本文の英訳として、文法や意味からみて最も適切なものを、(ア)～(エ)の中から一つ選び、その記号をマークしなさい。

- (11) たくさんの方々のご支援のおかげで、私たちは半壊した図書館を修復し、この夏に再び開館することができました。
 (ア) We are grateful for the support of many people, which allowed us to restore the partially destroyed library and reopen it this summer.
 (イ) Thanks to supports by many people, we could mend and reopen half-broken library this summer.
 (ウ) This summer we are happy to announce our library's reopening that was half collapsed owing for many peoples' generosity.
 (エ) With the help of many people, we were able to reopen the library that was partially fell apart and then fixed this summer.

(問題用紙 2)

- (12) のどに腫れや炎症が見られた際は、速やかにこの薬の摂取を中止し、医師に相談することをお勧めします。
- (ア) In case swelling or inflammation is seen in the throat, our advice is for you to stop taking your intake quickly and consulting a doctor.
 - (イ) When you feel irritated or swollen in your throat is to stop eating this medicine promptly, please consult your doctor.
 - (ウ) If irritation or swelling of the throat occurs, it is recommended that you stop the intake of this medicine immediately and consult a doctor.
 - (エ) On observing swell or inflammation of your throat, we urge that you consult your doctor as soon as possible to discontinue ingestion of this medicine.
- (13) この SNS 全盛時代に、今までのような新規客獲得を目的にしたマーケティングをやっていたら、なかなかうまくいかないのは当然のことです。
- (ア) In this SNS palmy days, if you are employing marketing strategies with aim of acquiring new customers like you have done, it is natural that you will not get along well.
 - (イ) In this era when SNS is very popular, it is a matter of course that utilizing old marketing techniques aimed at acquiring new customers will not yield successful results.
 - (ウ) It is not surprising that marketing methods aimed at acquiring new customers like we have in the era of this SNS prime, it gets worse before it gets better.
 - (エ) What cannot be helped is that in the SNS golden days, it is difficult to be successful, by marketing to aim acquiring new customers in the previous way.
- (14) 社会の近代化が進んで、さぞやいい世の中になるかと思いきや、待っていたのは、互いの言葉が理解できないという状況でした。
- (ア) As you were modernized, you would have thought that it would be a good world. However, the awaiting situation was that you would manage not even to communicate with one.
 - (イ) We thought that the social modernization was progressing and thus it would be a good world, but what we were waiting was a situation that mutual dialects could not be understood.
 - (ウ) People prematurely thought that they were going to enjoy a better world with the progress of social modernization. Nevertheless, they did not know they would not be able to catch each others saying.
 - (エ) Although it was surely expected that there would be a great world with a more modernized society, what was waiting was the situation where people's words were not mutually intelligible.
- (15) 機内で医療支援を求めるアナウンスがあったときに、名乗り出るのをためらう医師もいる。
- (ア) Some doctors are reluctant to come forward when there's a call for medical assistance on board a plane.
 - (イ) Some of doctors give a second thought to help troubled passengers as his name is called on the plane.
 - (ウ) Few doctors feel hesitant to claim themselves as so when there's an announcement seeking a medical help aboard.
 - (エ) Doctors waver identifying themselves when they are requested to do a medical treatment on plane.
- (16) 恋をしているときモーツァルトの曲を聞けば、いつそう心を高めてくれる。
- (ア) Your love is more significant to Mozart when you listen to him.
 - (イ) Mozart's music deflates your heart when you love somebody.
 - (ウ) When you are in love, Mozart's music elevates your emotions.
 - (エ) You can enjoy more happiness as you love Mozart as you hear with somebody.
- (17) 徳川幕府は潜入者を見つけ出そうと、人々が各自の方言を使うことを奨励した。
- (ア) The Tokugawa administration supported that people communicate with dialects with an eye of detecting the concealers.
 - (イ) In the Tokugawa period, the government respected the dialects in order to find the spies from the outside world.
 - (ウ) The Tokugawa regime suggested that people using their local languages for the purpose of recognizing the hideouts easily.
 - (エ) The Tokugawa Shogunate encouraged people to speak their local languages so that they could spot the infiltrators.
- (18) 自分のすべての卵を一つのかごに入れるようなことをしないのが有能なビジネスパーソンなのだ。
- (ア) Running a risk of placing all the eggs in one bag are avoided for a successful business person.
 - (イ) Honest and straight business people do not invest all their money at one chance.
 - (ウ) Putting one's eggs into a cart is too dangerous for a diligent business person to do.
 - (エ) A competent business person knows that you should not put all of your eggs in one basket.

(問題用紙 3)

III. 次の語を並べかえて、適切な英文を完成させなさい。大文字と小文字の区別は考慮しないこと。解答は指定された箇所に入るものだけをマークしなさい。

- (19) Jane placed the (19) () out of () () her () boys.
(ア) clumsy (イ) vase (ウ) reach (エ) fragile (オ) of
- (20) The contractor (20) the () paper () the () during the initial stages of the ().
(ア) stripped (イ) renovations (ウ) wall (エ) from (オ) striped
- (21) () () (21) the () of ().
(ア) meats (イ) retards (ウ) bacteria (エ) spread (オ) refrigerating
- (22) Despite the () location, they decided to () and (22) the () of ().
(ア) things (イ) best (ウ) poor (エ) stay (オ) make
- (23) The () (23) that () our empty () were a () to the whole community.
(ア) blessing (イ) rains (ウ) filled (エ) recent (オ) reservoirs
- (24) When the plans were refused, it was () () (24) () () the planning team.
(ア) for (イ) one (ウ) square (エ) back (オ) to
- (25) Please () the () on whether your school should () () of the (25) on mobile phones.
(ア) get (イ) discussions (ウ) rid (エ) begin (オ) ban
- (26) If your () (26) is at (), the best thing to do is take () of your ().
(ア) citizenship (イ) stake (ウ) finances (エ) status (オ) stock

IV. 次の英文の空所に入れるのに最も適切な語句を、(ア)～(エ)の中から一つ選び、その記号をマークしなさい。

As the Arctic heats up twice as fast as the rest of the world and sea ice and snow declines rapidly, polar bears will struggle to survive, according to a US government report published on Monday. Rising global temperatures is the single most important threat to the polar bears, which (27) sea ice to catch prey, according to the US Fish and Wildlife Service report. "Without (28) reductions [in global temperatures] ... it is unlikely that polar bears will be recovered," the agency said -- meaning that the species will continue to be considered endangered.

As a way for researchers to better understand how polar bears are (29) with declines in Arctic sea ice, point of view cameras were attached to an adult female bear by the US Geological Survey. The footage (30) a snapshot of the daily life for a polar bear in the southern Beaufort Sea in the Arctic and allowed scientists to study any changes in the animal's behavior and feeding rates. The footage highlights the importance of sea ice and how the bears use their incredible sense of smell to hunt down prey. "Seals will come out to rest (from the cracks in the sea ice) and that's where you find most of the polar bears hunting," the World Wildlife Fund's (WWF) UK polar program manager, Rod Downie, told CNN. According to WWF, polar bears spend over 50% of their time hunting, but less than 2% of their (31) are successful.

But it's not just hunting that the polar bears use sea ice for. "They also need sea ice to travel between areas to find mates -- it's a critical part of their (32) [so] if they lose that it's bad news for them," said Downie.

He said the reason why there's increased human-bear (33) is because the animals are hungry and encroaching on community land.

"Because [polar bears are] remaining on land more and more they're coming into contact with human communities ... children might be walking to school and risk the threat of being attacked by a polar bear." Downie said the normal reaction would be to kill the bear, so the WWF is working to educate communities on other ways they can (34) bears -- through firecrackers and correct food storage.

- (27) (ア) rely on (イ) trust in (ウ) mooch about (エ) scrounge off
(28) (ア) paltry (イ) trivial (ウ) expressive (エ) significant
(29) (ア) coping (イ) catching (ウ) coughing (エ) crumbling

(問題用紙 4)

- | | | | | |
|------|--------------|--------------|----------------|-------------------|
| (30) | (ア) reformed | (イ) revealed | (ウ) conformed | (エ) convinced |
| (31) | (ア) sticks | (イ) strains | (ウ) attempts | (エ) achievements |
| (32) | (ア) fauna | (イ) group | (ウ) complex | (エ) ecosystem |
| (33) | (ア) concord | (イ) conflict | (ウ) conviction | (エ) contradiction |
| (34) | (ア) deter | (イ) attack | (ウ) encourage | (エ) introduce |

V. 次の英文を読んで、下の問いに答えなさい。

A new kind of doctor has entered the exam room, but (35) doesn't have a name. In fact, these doctors don't even have faces. Artificial Intelligence has made its way into hospitals around the world. Those wary of a robot takeover have nothing to fear; the introduction of AI into health care is (36) about setting human minds against machines. AI is in the exam room to expand, sharpen, and at times ease the mind of the physician so that doctors are able to do the same for their patients.

(37) The applications for AI in medicine go beyond administrative drudge work, though. From powerful diagnostic algorithms to finely-tuned surgical robots, the technology is making its presence known across medical disciplines. Clearly, AI has a place in medicine; what we don't know yet is its value. To imagine a future in which AI is an established part of a patient's care team, we'll first have to better understand how AI (38) human doctors. How do they compare in terms of accuracy? What specific, or unique, contributions is AI able to make? In what way will AI be most helpful—and could it be potentially harmful—in the practice of medicine? Only once we've answered these questions can we begin to predict, then build, the AI-powered future that we want.

Although we are still in the early stages of its development, AI is already just as capable as (if not more capable than) doctors in diagnosing patients. Researchers at the John Radcliffe Hospital in Oxford, England, developed an AI diagnostics system that's more accurate than doctors at diagnosing heart disease, at least 80 percent of the time. At Harvard University, researchers created a "smart" microscope that can detect potentially (39) lethal blood infections: the AI-assisted tool was trained on a series of 100,000 images garnered from 25,000 slides treated with dye to make the bacteria more visible. The AI system can already sort those bacteria with a 95 percent accuracy rate. Then, of course, there's IBM's Watson: When challenged to glean meaningful insights from the genetic data of tumor cells, human experts took about 160 hours to review and provide treatment recommendations based on their findings. Watson took just ten minutes to deliver the same kind of actionable advice.

(ア) AI is perhaps most useful for making sense of huge amounts of data that would be overwhelming to humans. That's exactly what's needed in the growing field of precision medicine. (イ) The organization is compiling input from 7,500 doctors and 500 medical institutions in more than 80 countries in order to develop a system. (ウ) Anyone—patient, doctor, organization, device developer, or researcher—can access the system in order to make more informed clinical decisions. (エ)

Though sometimes we fear that robots are leading the charge towards integrating AI in medicine, humans are the ones having conversations about it and, ultimately, driving the change. We decide where AI should be applied and what's best left done the old-fashioned way. Instead of trying to predict what a doctor's visit will be like in 20 years, physicians can use AI as a tool to start building the future they want—the future that's best for them and their patients—today.

問1 下線部(35)の理由を表すのに最も適切なものを、(ア)～(エ)の中から一つ選び、その記号をマークしなさい。

- (ア) Because the doctor is new to the hospital.
- (イ) Because it is an AI doctor.
- (ウ) Because it is still under development.
- (エ) Because it is a new field of research.

問2 空所(36)に入れるのに最も適切なものを、(ア)～(エ)の中から一つ選び、その記号をマークしなさい。

- (ア) nevertheless
- (イ) as is often the case
- (ウ) instead
- (エ) not necessarily

問3 下線部(37)の内容に最も近い意味を表すものを、(ア)～(エ)の中から一つ選び、その記号をマークしなさい。

- (ア) Utilizing AI in medical settings does not mean it can only do long, hard, boring office work.
- (イ) People who want to introduce AI to their hospital ought to do a great deal of writing to make a request to a ministry.
- (ウ) Creating a new medical software to run the AI smoothly requires a tremendous amount of effort and resources.
- (エ) Humans cannot invent a perfect Artificial Intelligence because of limited microchips.

(問題用紙 5)

問 4 空所(38)に入れるのに最も適切なものを、(ア)～(エ)の中から一つ選び、その記号をマークしなさい。

- (ア) bears no comparison with
- (イ) measures up to
- (ウ) comes up with
- (エ) rivals to

問 5 下線部(39)に最も近い意味を表すものを、(ア)～(エ)の中から一つ選び、その記号をマークしなさい。

- (ア) life-threatening
- (イ) homicidal
- (ウ) poisonous
- (エ) death-defying

問 6 第 4 段落に以下の文を入れる際、最も適切な場所を文中の (ア)～(エ)の中から一つ選び、その記号を(40)にマークしなさい。

Hoping to fill that gap is The Human Diagnosis Project (Human Dx), which is combining machine learning with doctors' real-life experience.

問 7 以下の著名人の考えのうち、本文の趣旨と最も近いものを、(ア)～(エ)の中から一つ選び、その記号を(41)にマークしなさい。

- (ア) Bill Gates wrote in Reddit, a social Q&A service, "I am in the camp that is concerned about super intelligence."
- (イ) Tesla and SpaceX CEO, Elon Musk told U.S. governors that AI poses "a fundamental risk to the existence of human civilization."
- (ウ) The Director of Engineering at Google, Ray Kurzweil says, given the technology's potential to help find solutions to various problems, we have "a moral imperative to realize this promise while controlling the peril."
- (エ) The Director of Oxford's Future of Humanity Institute, Nick Bostrom warns that the world would harbor "economic miracles and technological awesomeness, with nobody there to benefit," like "a Disneyland without children."

問 8 本文の内容から見て正しいものを(ア)～(エ)の中から一つ選び、その記号をマークしなさい。(42 にマークしなさい。)

- (ア) Humans fear integrating AI in medicine because they can't have sufficient interaction.
- (イ) AI helps inexperienced doctors be as capable as skillful doctors in endoscopic surgery.
- (ウ) Human doctors have the same disadvantages in common with AI.
- (エ) AI shouldn't be regarded as an adversary of human doctors.