

英 語
(問 題)
2018年度

〈H30121119〉

注 意 事 項

1. 試験開始の指示があるまで、問題冊子および解答用紙には手を触れないこと。
2. 問題は2～11ページに記載されている。試験中に問題冊子の印刷不鮮明、ページの落丁・乱丁及び解答用紙の汚損等に気付いた場合は、手を挙げて監督員に知らせること。
3. 解答はすべて、HBの黒鉛筆またはHBのシャープペンシルで記入すること。
4. マーク解答用紙記入上の注意
 - (1) 印刷されている受験番号が、自分の受験番号と一致していることを確認したうえで、氏名欄に氏名を記入すること。
 - (2) 所定の欄以外に受験番号・氏名を記入した解答用紙は採点の対象外となる場合がある。
 - (3) マーク欄にははっきりとマークすること。また、訂正する場合は、消しゴムで丁寧に、消し残しがないようによく消すこと。

マークする時	● 良い	○ 悪い	○ 悪い
マークを消す時	○ 良い	○ 悪い	○ 悪い

5. 解答はすべて所定の解答欄に記入すること。所定欄以外に何かを記入した解答用紙は採点の対象外となる場合がある。
6. 試験終了の指示が出たら、すぐに解答をやめ、筆記用具を置き解答用紙を裏返しにすること。
7. いかなる場合でも、解答用紙は必ず提出すること。

[I] 次の英文 (i)～(viii) を読んで、設問 1～25 の解答として最も適当なものを、(A)～(D) の中から選びなさい。

(i) We've learned time and time again that people are really bad at picking strong passwords. Look at any list of leaked passwords, and the most popular ones will no doubt be things like "123456" and "password." CNBC had the best of intentions when it ran an online feature on password security recently. The implementation, however, resulted in many users potentially exposing their passwords for all to see.

The article itself is a perfectly competent explanation of how passwords can be brute forced, and how to make sure yours is as hard to guess as possible. The catastrophic failure is not in the writing of that piece, but the little password testing widget right in the middle. After a password was submitted in the widget, CNBC's page would copy it to a Google Docs spreadsheet for ranking. You can imagine that spreadsheet is a veritable goldmine for malicious hackers. The spreadsheet is at least private. Perhaps the worst part of all this is that advertisers and analytics firms, of which there were more than 30 on that page, all had access to the data from that password widget. If you entered your real password, you just gave it to 30 companies which may or may not have secure data storage themselves.

If CNBC's goal was to teach people to be more careful about password security, it might have done just that. Not with actual education, but by putting people at risk of being hacked. CNBC has not spoken about this disastrous crash course in password security. The article has been taken down, so no more unsuspecting users will give away their passwords.

1. What makes for a good password?
 - (A) Competent
 - (B) Hard to guess
 - (C) Hard to remember
 - (D) Popular
2. What was the problem with the CNBC online feature?
 - (A) Didn't explain how brute force attacks work.
 - (B) Passwords were stored on a spreadsheet.
 - (C) People were taught to be more careful.
 - (D) The article was hard to understand.
3. How did CNBC react to this problem?
 - (A) Apologized to participants.
 - (B) Taught people about security.
 - (C) Took down the article.
 - (D) All of the above
4. What is the best title for this passage?
 - (A) Article on Online Security Backfires
 - (B) CNBC Online Feature Hacked
 - (C) Online Documents Goldmine for Hackers
 - (D) Simple Passwords Threaten Security

(ii)

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5. Which of the following best describes modern vertical-axis wind turbines' characteristics?

- (A) Increase older turbines' output.
- (B) Installed close together.
- (C) Outperform conventional wind farms.
- (D) All of the above

6. How are sets of the new turbines arranged?

- (A) Array
- (B) Cluster
- (C) Horizontal
- (D) Vertical

7. What is the main idea of this passage?

- (A) Conventional wind farms are obsolete.
- (B) Decades-old technology revised.
- (C) Groups of new turbines improve performance.
- (D) Wind farm turbulence problem solved.

(iii) A tantalizing trio of Earth-sized worlds circles a tiny, dim star relatively close to us, and each planet is within or near the region where the star's light could support the early beginnings of extraterrestrial life. But don't get too hopeful for Earth look-alikes — while we don't know much yet about their characteristics, these three worlds exist in very different environments than our home planet. Still, this is the first time three such worlds have been spotted around an ultracool dwarf star, a discovery that bodes well for planet hunters scouring the galaxy for small, rocky planets. "This is a brand new planetary population that is revealed, and it could well dominate the total number of planets in the Milky Way," says Michaël Gillon of Belgium's University of Liège. "This indicates that the formation of Earth-sized planets around these downplayed ultracool dwarf stars — that are much more frequent than sunlike stars in the galaxy — is very efficient."

As they report this week in *Nature*, scientists found the system using the Transiting Planets and Planetesimals Small Telescope, or TRAPPIST. This robotic instrument in Chile searches for planets around the 60 brightest ultracool dwarfs. The host star for the newfound trio, called TRAPPIST-1, is just a tiny bit bigger than the planet Jupiter, and it is so cool that most of the light it emits is in the infrared. So, if alien life happened to emerge on any of the star's three known planets, the landscapes might look very different from our green world.

8. How are the three TRAPPIST-1 worlds described?

- (A) Tiny dim stars
- (B) Earth-sized planets
- (C) Ultracool dwarfs
- (D) None of the above

9. What bodes well for planet hunters?

- (A) 60 ultracool dwarf stars
- (B) Spotting the TRAPPIST-1 worlds
- (C) Many sunlike stars in the galaxy
- (D) None of the above

10. What is a characteristic of TRAPPIST-1?

- (A) A little smaller than Jupiter.
- (B) It's a small, rocky planet.
- (C) The light is mostly infrared.
- (D) None of the above

(iv)

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11. What is a benefit of timber buildings?
- (A) Faster to build
 - (B) Historic tradition
 - (C) Renewable resource
 - (D) All of the above
12. How are timber structures described?
- (A) Historic
 - (B) Renewable
 - (C) Underused
 - (D) All of the above
13. What is the main idea of this passage?
- (A) Building timber structures requires strategic problem solving.
 - (B) London's future may require more wooden buildings.
 - (C) Record-breaking wooden structure to be built in London.
 - (D) Tall timber buildings offer several advantages.

(v)

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14. How is the Manx comet described?

- (A) Gleaming
- (B) Pristine
- (C) Spotted
- (D) All of the above

15. What happened to the Manx comet?

- (A) Jostled
- (B) Reflected
- (C) Slung
- (D) Vaporized

16. What is the best title for this passage?

- (A) Manx Comet May Hold Solar System's Secrets
- (B) Comet Brings Materials from between Mars and Jupiter
- (C) Manx Comet Twice as Far Away as Regular Comets
- (D) Unique Tailless Comet Puzzles Scientists

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17. What was the study's goal?
- (A) Confirm some mental skills dwindle around age 30.
 - (B) Develop mathematical models to predict exercise benefits.
 - (C) Learn about the exercise habits of people over 40.
 - (D) Study the relationship between exercise and cognitive abilities over 40.
18. How did participants who had moderate-to-intense workouts benefit?
- (A) Better memories
 - (B) Fewer toxins
 - (C) Improved blood flow
 - (D) Less brain damage
19. What is the best title for this passage?
- (A) Exercise Slows Cognitive Decline
 - (B) People Over 40 Need More Exercise
 - (C) Reversing Cognitive Decline After 30
 - (D) Working Out Turns Back the Clock

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20. What is unusual about the Kern Center?

- (A) 17,000-square-foot college facility
- (B) Generates its own energy and water.
- (C) New entry point onto the campus
- (D) Paid for by alumni and other donors.

21. Which item is most likely to be found in the new building?

- (A) Asbestos
- (B) Lead
- (C) Polyvinyl chloride
- (D) Wastewater

22. How does this building contribute to Hampshire becoming a carbon-neutral campus?

- (A) Contains composting toilets, solar panels, and rainwater collection systems.
- (B) Doesn't require outside energy, water, or waste management.
- (C) Uses heavily-insulated roofs, walls, and energy-efficient windows.
- (D) All of the above

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23. What is NOT a negative consequence of poor indoor air quality in schools?

- (A) Absenteeism
- (B) Allergies
- (C) Asthma
- (D) None of the above

24. How much have indoor air quality problems increased in recent years?

- (A) 20 percent
- (B) More than 100 times
- (C) Two to five times
- (D) Not enough information given

25. What is the best title for this passage?

- (A) Poor IAQ in Schools: Before and After
- (B) Poor IAQ in Schools: Beginnings and Endings
- (C) Poor IAQ in Schools: Causes and Cures
- (D) Poor IAQ in Schools: Fact or Fiction?

〔Ⅱ〕 次の設問26～40の空所を補うものとして最も適当な語を、(A)～(K)の中から選びなさい。
ただし、使われない語が含まれていることもあります。また、同じ語を繰り返して使うことも
できます。空所に何も補う必要のない場合には (L) を選びなさい。

(A) about	(B) across	(C) for	(D) in	(E) into	(F) of
(G) on	(H) out	(I) over	(J) to	(K) with	(L) No Word

26. We hoped to finish the project in one day, but we eventually ran _____ of time.
27. If tensions in the region continue to escalate, I'm afraid we may go _____ war.
28. The authors of the new theory faced _____ harsh criticism from their colleagues.
29. It's difficult to get your idea _____ to someone unfamiliar with the topic area.
30. I was truly happy when she said, "You'll always have a good friend _____ me."
31. Some people were upset about the tax hike, but it doesn't bother _____ me.
32. The secretary took extensive notes to transcribe the interview _____ verbatim.
33. The weather forecast calls _____ a severe thunderstorm this evening.
34. By working together, we were able to succeed _____ our new business.
35. Daniel has set his sights _____ being a graphic designer after graduation.
36. My eighteen-year-old daughter has only driven our car a handful _____ times.
37. The company decided to pull _____ of some unprofitable businesses.
38. The self-driving vehicle somehow avoided running _____ the building.
39. The researchers admitted _____ themselves that their theory was inadequate.
40. Sarah could still play the violin _____ the best of them.

〔Ⅲ〕 次の設問41～50のA～Dのうち、誤った英語表現を含んだ部分がある場合にはA～Dの中の一つを、誤りがない場合にはEを選びなさい。

41. Most stories in my literature class are uninteresting but I enjoyed from the most recent book.
A B C D
NO ERROR
E
42. She looked forward to meet the new family that was moving in next door to her house.
A B C D
NO ERROR
E
43. I was born in Canada, lived in France for several years, but am now living in United States.
A B C D
NO ERROR
E
44. I'm too busy to have lunch with you today but I promise I call you later this week. NO ERROR
A B C D E
45. Although she struggled for many years, she finally became a big success in Hollywood.
A B C D
NO ERROR
E
46. As her mother, the young girl was outgoing and often helped people in her neighborhood.
A B C D
NO ERROR
E
47. I should be able to attend the meeting, but if I will be late, I will send you a text message.
A B C D
NO ERROR
E
48. My family lived in Wisconsin for several years and there is a cold part of America. NO ERROR
A B C D E
49. We would have been happy to help her if she would have come to us in the first place.
A B C D
NO ERROR
E
50. Chiharu is busy with all the houseworks since her marriage last year. NO ERROR
A B C D E

〔以下余白〕