

2020年度全学統一入学試験問題

英 語

(2月3日)

開始時刻 午前10時30分

終了時刻 午前11時30分

注 意 事 項

1. 試験開始の合図があるまで、この問題冊子の中を見てはいけません。
2. この冊子は9ページです。落丁、乱丁、印刷の不鮮明及び解答用紙の汚れなどがあった場合には申し出てください。
3. 解答用紙には解答欄以外に次の記入欄があるので、監督者の指示に従って、それぞれ正しく記入し、マークしてください。

① 受験番号欄

受験番号を記入し、さらにその下のマーク欄にマークしてください。正しくマークされていない場合は、採点できないことがあります。

② 氏名欄

氏名とフリガナを記入してください。

4. 解答は解答用紙の解答欄にマークしてください。例えば、

10

と表示のある問いに対して③と解答する場合は、次の(例)のように解答番号10の解答欄の③にマークしてください。

(例)

10	①	②	③	④
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5. 問題冊子の余白等は適宜利用してもかまいません。
6. 試験終了後、問題冊子は持ち帰ってください。

1 次のA～Bに答えなさい。

A 次の問1～3のそれぞれ①～④から、下線部の発音が他の3つの場合と異なるものを1つずつ選びなさい。

問1

- ① depict ② initial ③ risen ④ society

問2

- ① dock ② lose ③ pottery ④ stock

問3

- ① advise ② cease ③ choose ④ ease

B 次の問4～5のそれぞれ①～④から、第一アクセント(第一強勢)の位置が他の3つの場合と異なるものを1つずつ選びなさい。

問4

- ① ca-reer ② dif-fer ③ main-tain ④ tech-nique

問5

- ① ham-burg-er ② mu-se-um ③ sep-a-rate ④ typ-i-cal

2 次の英文を読んで、A～Cに答えなさい。

Being stressed or afraid may alter a person's usual scent. That can throw dogs off the person's track. People with a particular version of a gene may have a bigger change in odor when stressed, new data show. ⁽⁶⁾

Trained police dogs did not recognize stressed-out people who had inherited a form of a gene linked to managing stress poorly. The dogs had no trouble sniffing out these people when they weren't under stress. Francesco Sessa reported their new findings February 22, 2019, at the annual meeting of the American Academy of Forensic Sciences. Their findings might help explain why dogs can perform flawlessly in training but have difficulty tracking people during real-world hunts. ⁽⁷⁾ ⁽⁸⁾

Sessa studies genetics at the University of Foggia in Italy. He and his colleagues wondered whether fear might change someone's normal scent. They focused on a gene called *SLC6A4*. It makes a protein that helps move signaling molecules in the brain and nerves. Studies had already linked different forms of this gene to how well someone manages stress. Those with a long version of *SLC6A4* tended to handle stress better than did people with the short version, Sessa notes. ⁽⁹⁾

For its new study, his group recruited four volunteers. One man and woman each had the long version of the gene. Another man and woman had the short version. Each of them wore a scarf for a couple of hours a day. This left their scent on the garment. ⁽¹⁰⁾ ⁽¹¹⁾

Then the researchers brought the volunteers into their lab and gave them T-shirts. In the first session, the volunteers just wore one of the shirts. They weren't subjected to any stress. The team then mixed the participants' shirts with shirts worn by other people. They made two lineups of 10 T-shirts each. One set was from men and the other was from women. After sniffing the scarves, two trained police dogs had no trouble picking any of the volunteers' shirts out of the lineups. The canines identified each of the volunteers' shirts in each of three attempts. ⁽¹²⁾

On their next visit, the volunteers wore new T-shirts. Then the researchers 13 them do public speaking to stress them out. The participants' hearts raced and their breathing became shallow. Those are signs that these people were scared, Sessa explains.

That stress may have made their body odor change. Indeed, the animals had a harder time matching a volunteer to a stress-stained T-shirt. The dogs found the tees from the man and woman with the long version of the *SLC6A4* gene in two out of three tries. But 14 dog could identify the shirts from the stressed people with the short version of the gene. The result suggests that those people's natural scent had changed more 15 response to stress.

The researchers need to confirm their findings in a larger study, Sessa says. The team has not yet studied how being scared or stressed changes body odor. In fact, more than one gene may be .

Still, the finding could help explain why dogs can find some people more easily than others, says Cliff Akiyama. He is a criminologist and forensic scientist. He also a forensic consulting company based in Philadelphia, Penn.

Fear can set off a flood of stress hormones in the body. Some people respond by . Others fight. Still others may flee. Perhaps that same hormone flood could alter a person's scent, Akiyama says.

Don't give up on dogs yet, though. They may be useful for tracking people with the long version of *SLC6A4*. And they can help find people who are missing but not scared. , Akiyama points out, some missing persons may be with relatives or others they know. And if the people aren't afraid, their scents may unchanged.

(注) the American Academy of Forensic Sciences : 米国法科学学会

signaling molecule : シグナリング分子(細胞間の情報伝達機能を持つ化学物質)

tee : Tシャツ

criminologist : 犯罪学者

forensic scientist : 法科学者

A 下線部(6)~(12)に最も近い意味を持つものを、それぞれ下の①~④から1つずつ選びなさい。

問 1

- ① different ② latest ③ primary ④ specific

問 2

- ① formal ② general ③ important ④ yearly

問 3

- ① perfectly ② unsuccessfully ③ with difficulty ④ without delay

問 4

- ① were anxious ② were familiar ③ were likely ④ were supposed

問 5

- ① an hour ② a few hours ③ six hours ④ many hours

問 6

- ① the item of clothing
- ② the other person
- ③ the place
- ④ the shirt

問 7

- ① The dogs
- ② The men and women
- ③ The researchers
- ④ The scarves

B 空所 ~ を補うのに最も適切なものを、それぞれ下の①~④から1つずつ選びなさい。

問 8

- ① frightened
- ② had
- ③ paid
- ④ told

問 9

- ① both
- ② idle
- ③ neither
- ④ trained

問10

- ① by
- ② for
- ③ in
- ④ on

問11

- ① excluded
- ② harmed
- ③ involved
- ④ produced

問12

- ① benefits
- ② makes
- ③ runs
- ④ works

問13

- ① escaping
- ② freezing
- ③ quarreling
- ④ running away

問14

- ① Eventually
- ② Fortunately
- ③ For instance
- ④ However

問15

- ① find
- ② hear
- ③ make
- ④ remain

C 本文の内容と一致するものを、それぞれ下の①～④から1つずつ選びなさい。

問16 According to this article, .

- ① stressed-out people may change their movements, which made it difficult for dogs to follow them
- ② dogs can pursue some people more easily because they may change their behavior when they are afraid
- ③ the smell given out by fear may make it hard for dogs to pursue some people
- ④ people with a particular type of a gene are better at training dogs

問17 Francesco Sessa and his colleagues focused on a gene called *SLC6A4* to see .

- ① if it helps people manage stress
- ② if it works in the brain and nerves
- ③ if it makes a protein
- ④ if fear can change people's scent

問18 In the first part of the research in this article, the dogs picked out the volunteers' shirts .

- ① in one out of three tries
- ② in two out of three tries
- ③ in two out of ten tries
- ④ each time

問19 Thanks to the finding of this research, you could find out .

- ① that people have different types of genes
- ② how being stressed or afraid alters a person's scent
- ③ that public speaking makes people stressed
- ④ the reason that dogs can find some people more easily

問20 Dogs may be useful for tracking .

- ① people with the short version of *SLC6A4*
- ② people who are lost but not upset to be with familiar people
- ③ people who are missing and nervous
- ④ people under stress at home

3 次の会話文を読んで、空所(26 ~ 35)を補うのに最も適切なものをそれぞれ下の①~④から1つずつ選びなさい。

Samuel : Hey, Masa, could you come here?

Masahiro : Sure, Sam. 26 ? You don't look good. Are you okay?

Samuel : No. My stomach really 27 and I feel really hot.

Masahiro : (Masa places his hand on Sam's forehead.) You're right. You have 28 .
You need to go to a hospital. Can you 29 it?

Samuel : Um, I don't know...

Masahiro : We have to call an ambulance.

Samuel : No, no! We can't call an ambulance!

Masahiro : Huh, 30 ?

Samuel : They're super expensive.

Masahiro : Ambulances are? Really?

Samuel : They 31 thousands of dollars.

Masahiro : That much!? So, what should we do?

Samuel : I want to go to Parker Clinic. That's the clinic of my primary doctor. Could you call them 32 me?

Masahiro : Sure.

Samuel : Can you grab my smartphone? It's on that desk.

Masahiro : Sure. Okay.

Samuel : Thanks. (After using the smartphone for a moment, Sam 33 it to Masa.)
Here, call them with this number.

Masahiro : 34 it.

Masahiro : They said you can go to Parker Clinic 35 . I'll call a taxi. Is that okay?

Samuel : Yeah. Thanks.

26

- | | |
|----------------------------|----------------------|
| ① What's disturbed | ② What's wrong |
| ③ What's the matter to him | ④ What are you up to |

27

- | | | | |
|---------|-------------|---------------|---------------|
| ① hurts | ② irritates | ③ disappoints | ④ embarrasses |
|---------|-------------|---------------|---------------|

28

- ① an injury ② a fever ③ an epidemic ④ an ache

29

- ① make ② come ③ run ④ take

30

- ① what if ② what do you say
③ why not ④ what about

31

- ① make ② spend ③ earn ④ cost

32

- ① for ② on ③ by ④ toward

33

- ① calls ② sells ③ adds ④ hands

34

- ① Got ② Ran ③ Kept ④ Did

35

- ① at times ② right away ③ all at once ④ at home

4 次の問1～10の空所(36 ～ 45)を補うのに最も適切なものをそれぞれ下の①～④から1つずつ選びなさい。

問1 He ill in bed yesterday. I certainly saw him in the shopping mall.

- ① could be ② could have been
③ couldn't be ④ cannot have been

問2 He made it that he was unwilling to run for the election.

- ① know ② knew ③ to know ④ known

問3 He said he his son to the zoo next Saturday.

- ① had taken ② was taking ③ takes ④ has taken

問4 The ticket was expensive. In fact, it cost me 200 dollars.

- ① as much as ② no more than ③ as many as ④ larger than

問5 Is this tablet computer to browse the web comfortably?

- ① large enough ② largely enough
③ enough largely ④ enough large

問6 Nowadays I go to a movie theater. I watch movies at home.

- ① seldom ② frequently ③ namely ④ probably

問7 The population of Japan is expected to be less than in forty years.

- ① three-four ② three-fours ③ three-fourth ④ three-fourths

問8 "Have you bought a suit to wear for interviews yet?"

"Yeah. I ordered last week."

- ① one ② that ③ it ④ them

問9 You must take all the necessary things you will not have to come again.

- ① whether ② unless ③ in case ④ so that

問10 I actually don't like onions and neither .

- ① my sister is ② is my sister ③ my sister does ④ does my sister

5 次の問1～5の空所(46 ~ 50)を補うのに最も適切なものをそれぞれ下の①～④から1つずつ選びなさい。

問1 Takeshi works for an advertising agency. He is 46 on a new ad campaign now.

- ① brushing ② relying ③ trying ④ working

問2 I've just been to the airport to see my friend 47 .

- ① by ② off ③ up ④ with

問3 She is cheerful 48 nature.

- ① by ② for ③ on ④ to

問4 He tends to think of everything 49 money.

- ① in place of ② in spite of ③ in terms of ④ in the way of

問5 What do you think these three people have 50 ?

- ① in common ② with common ③ in time ④ with time