

平成 25 年度 入学試験問題

医学部 (I 期)

英語・数学

注意事項

1. 試験時間 平成 25 年 1 月 25 日、午前 9 時 30 分から 11 時 50 分まで
2. 配付した試験問題(冊子)、解答用紙の種類はつぎのとおりです。
 - (1) 試験問題(冊子、左折り)(表紙・下書き用紙付)
英語
数学(その 1、その 2)
 - (2) 解答用紙
英語 1 枚(上端黄色)(右肩落し)
数学(その 1) 1 枚(上端茶色)(右肩落し)
" (その 2) 1 枚(上端茶色)(左肩落し)
3. 下書きが下書き用紙で足りなかったときは、試験問題(冊子)の余白を使用して下さい。
4. 試験開始 2 時間以降は退場を許可します。但し、試験終了 10 分前からの退場は許可しません。
5. 受験中にやむなく途中退室(手洗い等)を望むものは挙手し、監督者の指示に従って下さい。
6. 退場の際は、この試験問題(冊子)を一番上にのせ、挙手し監督者の許可を得てから、試験問題(冊子)、受験票、下書き用紙および所持品携行の上退場して下さい。
7. 休憩のための退場は認めません。
8. 試験終了のチャイムが鳴ったら、直ちに筆記をやめ、おもてのまま上から解答用紙[英語、数学(その 1)、数学(その 2)]、試験問題(冊子)の順にそろえて確認して下さい。確認が終つても、指示があるまでは席を立たないで下さい。
9. 試験問題(冊子)はお持ち帰り下さい。
10. 監督者退場後、試験場で昼食をとることは差支えありません。ゴミ入れは場外に設置してあります。
11. 午後の集合は 1 時です。

英語

1 各文の()の中に入れるのに最も適切な表現を1つ選び、記号で答えなさい。

2 日本文の意味になるよう各[]内の語を並べかえて英文を完成させる時、
(1)～(10)に入る語を書きなさい。

1. アスピリンは脳卒中を予防するのに効果があるかもしれないと言われている。

It is [stroke / that / may / to / aspirin / prevent / said / help].

⇒It is [()()()()()()()()()].

2. 日本では年間2千人以上が結核で亡くなると推計されている。

It [more / of / estimated / is / people / that / two thousand / die / than / tuberculosis]
every year in Japan.

⇒It [()()()()()()()()()()]
()()] every year in Japan.

3. 仕事をやめる前によく考えてみたほうがいいと思うよ。

I think [your / twice / should / before / quitting / job / think / you].

⇒I think [()()()()()()()()()].

4. 二、三ヶ月で簡単な会話ができるようになるように、わたしはドイツ語の授業に打ち込んだ。

I [be able to / the German classes / on / threw / so that / myself / would / I / into /
carry] a simple conversation within a few months.

⇒I [()()()()()()()()()()]
()] a simple conversation within a few months.

5. 彼は自らの冒険をまるで昨日のことのように生き生きと語った。

He described [yesterday / his / vividly / as / they / as / had / adventures / happened / if].

⇒He described [()()()()()()()()()()]
()()()].

3 次の文の下線部に 1箇所だけ誤りがある。例にならってその箇所の番号を指摘し、正しく書き直しなさい。

例) This product is superior than that one in quality.
(1) (2) (3) (4)

解答 (2)→ to

1. Parsley, which is a herb with curly leaves, is quite easy to grow up and is often used as as decoration on food.
2. I would rather have a room of my own, whatever small it may be.
3. I did not know that pneumonia is also one of the lead causes of death among the Japanese besides cancer, heart disease and stroke.
4. Flights may be subject to delay because of the typhoon. We apologize about any inconvenience caused.
5. My dentist told me that I should have had the wisdom tooth pull out much earlier.

4 次の会話を読んで、(1)~(5)に入れるのに最も適切な表現を選択肢から 1つずつ選び、記号で答えなさい。

Pharmacist at a drugstore : Good morning, ma'am. May I help you?

Customer : Yes, I'd like to take a supplement to lose some weight. (1)

Don't you think so?

P : Well, I don't know. (2)

C : Really? I didn't know that. What about an herbal medicine? Is it safe?

P : No, not really. (3)

C : Yes. My doctor told me to take these tablets three times a day, because I have a sore throat now. (*The customer shows the medicine to the pharmacist.*)

P : (4)

C : Then, what should I do?

P : (5) I think a well-balanced diet and some regular exercise will do you good if you really want to lose weight and keep healthy.

<選択肢>

- A. I've been on medication for about a month.
- B. Well, when you are taking a prescription medicine, you have to be cautious in taking any other medicine.
- C. People say that it's "natural," so I think it's safe.
- D. Why don't you consult your family doctor before taking a supplement?
- E. Have you ever taken any kind of supplements before?
- F. Actually, the word "natural" does not always mean "safe."
- G. Are you on medication now?

5

次の文章を読んで以下の問い合わせに答えなさい。

Children's behavior at age 3 offers some surprising clues about their risk of developing addictive behaviors like problem gambling or drug misuse in their 30s, according to data from an ongoing study of nearly 1,000 people in New Zealand.

The research, which has so far tracked participants' psychological, economic and intellectual life course from birth to age 32, involves virtually all of the children born in Dunedin, New Zealand, between April 1972 and March 1973.

The new analysis, which was published in *Psychological Science*, found that children whose temperament* was deemed "undercontrolled" at age three were more than twice as likely as well-adjusted kids to have problems with gambling at age 21 and 32. About 10% of the children exhibited this type of temperament at that age, which involves a lack of self control, including rapidly shifting emotions, impulsive* and willful* behavior and relatively high levels of negative feelings.

The association held (t) even after controlling for factors like IQ, gender and (2) socioeconomic* status. And when these children were assessed as adults, they still rated high on feelings of alienation* and continued to express high levels of negative emotion. They also tended to be less conscientious* and less socially agreeable than their peers.

Long-term studies like the Dunedin project are critical for sussing out* the roots of addiction. A key question that has long plagued* addiction researchers is: Do factors like problem drug-taking or gambling lead to impulsive behavior — and depression — or are people who start out feeling low and acting impulsively more vulnerable to getting hooked?

"This can help to tease apart* chicken-and-egg-type questions — that is, which came (3) first," says Wendy Slutske, professor of psychological science at the University of Missouri and the lead author of the study. "In this case, we have firmly established that

undercontrolled temperament comes before any involvement in gambling. This is an important piece of the puzzle in developing a theory of the development of problem gambling."

Howard Shaffer, director of the division on addiction at Harvard Medical School, who specializes in problem gambling and was not associated with the study, described the study as an "important contribution to the field."

"There are few longitudinal studies*," Shaffer says, "and, in addition to providing a longitudinal study, this research extends the opportunity to examine predictors* downward to a very young age. This research also is important because it begins to clarify the nature of the many important non-gambling variables* that contribute to excessive and disordered* gambling."

Researchers aren't yet sure why the undercontrolled temperament is linked with addictive behavior. Some people with this temperament may enjoy gambling because it allows them to escape from their elevated levels of negative emotions; others may simply be at higher risk because of their reduced impulse control. Both factors combined would be riskiest of all.

Slutske notes some additional explanations: "One possibility is that there are genetic factors that are related to both low self-control and gambling or problem gambling. Another possibility is that children who are low in emotional and behavioral control tend to associate with other undercontrolled children who introduce them to gambling activities."

Once an individual develops a gambling habit, Slutske says, their low emotional and behavioral control may lead to worse decision-making while gambling, or losing control during a gambling session, which may in turn lead to gambling problems.

Gambling isn't the only addiction risk associated with the undercontrolled temperament. An earlier analysis of the Dunedin population found that children with the most undercontrolled behavior at ages 3 and 5 had more than three times the risk of becoming addicted to multiple drugs as young adults, compared with those who had exhibited the highest levels of self-control.

The findings underline the idea that some people are innately more vulnerable to addictions than others—not because they seek extra pleasure, but because they have a pre-existing excess of negative emotions and an inability to control them.

Indeed, an earlier longitudinal study in California suggested the same kinds of associations, finding that preschool children who had less impulse control and higher levels of emotional distress were more likely to develop drug problems later.

The New Zealand and California studies add to the increasing scientific evidence that addiction is not the result only of drug use or experience with activities like gambling, but rather that the minority of people who do become addicted overwhelmingly have pre-existing

problems. At least half of addicted people have another mental illness, such as depression or an anxiety disorder, and these data suggest that those conditions or the temperaments that predispose* people to them are key contributors to the addiction.

This means that treatment for gambling or substance problems cannot focus solely on the addictive behavior. "Clinicians must address the full spectrum of issues that tend to cluster with disordered gambling. It is not enough to focus exclusively on gambling activities. Key player attributes will need attention as well," says Shaffer.

Slutske cautions, however, that it is by no (m _____) inevitable that undercontrolled children will develop gambling problems or addictions. "Although it is remarkable that one can predict whether one will develop a gambling problem in adulthood from a 90-minute observational assessment at age 3, it is also important to understand that an undercontrolled 3-year-old is not doomed to become an adult problem gambler," she says. "They are just at increased risk. This means that there were many undercontrolled children—in fact, the majority—who did not have any gambling problems as adults."

(Adapted from "Can Addictive Behaviors Be Predicted in Preschool?" Healthland. TIME. 2012/04/26)

注) temperament 気質 impulsive 衝動的な willful わがままな
socioeconomic 社会経済的 alienation 疎外 conscientious 良心的な
suss out 発見する plague 悪ます tease apart 解きほぐす
longitudinal study 縦断研究(研究の対象となる人の成長過程を追いながら長期に渡って
データを取り続ける研究手法)
predictor 徴候を示すもの variable 変数
disordered 病的な predispose (病気に)かかりやすくする

1. 下線部(1)とほぼ同じ意味をもつ語を選択肢より選び、記号で答えなさい。
(A) almost (B) precisely (C) generally (D) partly (E) approximately
2. 下線部(2)と下線部(5)がそれぞれ提示したような日本語の意味になるように、空所に入る適切な1語を書きなさい。ヒントとして頭文字が示してあります。
下線部(2) 「当てはまった」
下線部(5) 「決して…でない」
3. 下線部(3)で、「鶏が先か、卵が先か」と述べられている疑問は、具体的にはどのようなことを90字以内の日本語で説明しなさい。

4. 下線部(4)を和訳しなさい。

5. 本文の内容に合っているものを 3 つ選び、記号で答えなさい。

- (A) Slutske doubts that undercontrolled temperament may be a cause of any involvement in gambling.
- (B) One of the reasons why Shaffer thinks that this study conducted in New Zealand is important is that quite a few longitudinal studies are already in progress in New Zealand.
- (C) Shaffer thinks that this kind of longitudinal study helps the researchers track down the early signs that can lead to problem gambling to a very young age.
- (D) Researchers still do not know much about the reason why the undercontrolled temperament is linked with addictive behavior.
- (E) Slutske thinks that genetic factors have nothing to do with low self-control and gambling.
- (F) People who are involved in gambling rarely associate with those who are absorbed in problem gambling.
- (G) According to the present study, people who tend to be affected by addictions are those who have mild negative emotions that are undercontrolled from the start.
- (H) When treating problem gambling, doctors should focus their attention not only on the problem itself but also on the pre-existing attributes that underlie the problem.
- (I) Slutske found out that all undercontrolled children are destined to become an addict when they become adults.