令 和 5 （2023）年 度

一般選抜前期日程（経済学部）試験問題

英語・数学【選択】

注 意 事 項

1　試験開始の合図があるまで、この問題冊子を開かないでください。

2　「英語」「数学」のいずれかを選択し、解答してください。
　　英語：１～１８ページ　　　数学：１９～２０ページ

3　解答用紙は、「英語」が黄色（全２枚）、「数学」が緑色（全４枚）
　　です。対応した用紙に解答を記入してください。

4　解答用紙は必ず選択した教科だけに受験番号と氏名を記入してください。
　　両方の教科に受験番号と氏名があった場合、解答は無効になります。

5　解答には鉛筆かシャープペンシルを使用してください。

6　試験時間は９０分です。

7　試験終了後、問題冊子も回収します。

8　何か伝えたいことがあるときは挙手してください。

令 和 5（2023）年 度
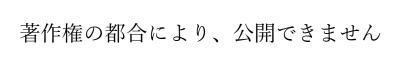## 一般選抜前期日程（経済学部） 試験問題

英語【選択】

注 意 事 項

1　英語の解答用紙は「黄色」です。

2　何か伝えたいことがあるときは挙手してください。

READING SECTION

Read each passage and choose the best answer from among the four choices for each question. Then write A, B, C, or D on your answer sheet.

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Reference: Christison, M. A., & Bassano, S. (1993). *Social Studies: Content and Learning Strategies* (pp. 108–111). Addison-Wesley.

1. Which of the following best fits the blank in paragraph 1, line 9?
    A) occasionally   B) eventually   C) specifically   D) initially

2. Which of the following best fits the blank in paragraph 3, line 7?
    A) However   B) In contrast   C) In addition   D) Therefore

3. Which of the following has the closest meaning to "are entitled to" in paragraph 5, line 3?
    A) have a right to get   B) are responsible for   C) are suffered from   D) long for

4. What was the life of migrant farm workers like?
    A) Urban   B) Luxurious   C) Carefree   D) Uncivilized

5. According to the passage, which of the following is probably NOT true about the living conditions of migrant farm workers?
    A) They didn't have baths or toilets.
    B) Their wages were very low.
    C) They were not allowed to go out of the camps.
    D) Their break time was very short.

6. Why did Cesar Chavez become the leader of migrant workers?
    A) He wanted to build more houses for migrant workers.
    B) He wanted to work on another farm in California.
    C) He wanted to go to university to study law.
    D) He wanted to improve the living conditions of migrant workers.

7. How did Chavez help migrant farm workers?
    A) He listened to angry farm workers.
    B) He walked with workers to protest.
    C) He helped farm workers receive lawyers' support.
    D) All of the above

8. Why was the United Farm Workers organized?

    A) To help migrant farm workers gain better working conditions

    B) To help the farm workers get out of jail

    C) To help the landowners recruit more farm workers

    D) To help people buy farm products at better prices

9. Why did migrant farm workers hesitate to join the United Farm Workers at first?

    A) They were afraid of violence from the landowners.

    B) They didn't want it to come out that they were working on a farm.

    C) They could not afford to pay the union's membership fee.

    D) They were afraid of being unemployed.

10. According to the passage, which of the following is NOT true?

    A) The mass media was interested in Chavez's violence-free fighting style.

    B) Chavez endured 25 days on little food to assert the rights of migrant farm workers.

    C) Chavez's nonviolent fight style was derived from his mother's teachings.

    D) Before Chavez's family became migrant farm workers, his father was a farm manager.

For canine instructor Brent Heldt, every day has a noisy start as he stops to say hello to a half dozen or more beagles. When he walks through the dog housing unit at the National Detector Dog Training Center in Orlando, Florida, the dogs bark and jump impatiently. They can't wait for their chance to go outside for a training session and morning run with Heldt.

The first lucky dog is a beagle called Stockton. "Go on, go get it! Go get it!" says Heldt as he throws a ball for the beagle. Stockton runs quickly across the training yard and races back with the ball. However, Stockton wants to have a little fun and he runs right past the waiting Heldt. The trainer laughs as the dog runs around him and keeps the ball away from him. Later he and Stockton will be working hard, but first, it's play time. It's because of these little signs of personality that Heldt sincerely enjoys working with the dogs. "Their personalities are all very different," he explains. "That's what makes this job so cool. I mean, every time I train these guys, I learn something different."

Later that day, Heldt puts Stockton in a truck to go to work. No, it's not to go to Heldt's job, it's to go to Stockton's! Stockton is training to become a detector dog so he can work at the international airports around the United States. Detector dogs use their famous noses to sniff for goods which shouldn't come into the country.

Airport detector dogs often wear green jackets to indicate that they are on the job. They then patrol the airport and smell suitcases for foods like citrus fruits, mangoes, and apples that may carry fruit flies and other pests. They also sniff for meat products that may carry diseases, such as the dangerous and highly infectious *hoof-and-mouth disease. The dogs must learn how to do this without bothering the passengers who are bringing home safe and legal gifts for their friends and family. That's why the dogs must first learn how to 'sniff out,' —or find and signal—illegal imports in the airport baggage claim area. This is where the National Detector Dog Training Center comes in.

At the Training Center the dogs start slowly and simply by first investigating boxes that contain various items. Heldt explains how it works: "What we have got here is a target box," he says as he opens one of the boxes. "It's called 'mixed,'" he explains, "The reason I call it 'mixed' is because that's exactly what it is. It's mixed odor." He then picks up some of the items in the box and explains what they are, "We have some beef jerky so I have the beef odor. I have an apple odor. I have a citrus odor, and I have a mango odor." Stockton begins his training and must first practice finding certain scents like these in a room full of target boxes.

After the boxes, Stockton graduates to working with carry-ons and soft-sided bags. He runs around a group of bags with his nose to the ground as he tries to sniff out the target scents. Then, Stockton moves on to the really difficult challenge—finding specific odors in

the larger, hard suitcases. Stockton must also learn to behave when he finds a target scent. He must learn to sit down on or near any bag that contains a smell that could possibly be trouble. "That's a good boy," Heldt says to the beagle _____ when Stockton finds the meat scent and sits down.

Note.

*hoof-and-mouth disease 口蹄疫（偶蹄類がかかるウイルス性の急性伝染病）

Reference: Waring, R. (2009). *Beagle patrol* (pp. 4–9). Heinle Cengage Learning. (partially revised)

11. What do Stockton and Mr. Heldt do together before they train?
    A) Race
    B) Work
    C) Jump
    D) Play

12. Which of the following best fits the blank in paragraph 6, line 6?
    A) interestingly
    B) encouragingly
    C) respectively
    D) consciously

13. Who does Mr. Heldt work for?
    A) An animal training center
    B) An airport
    C) The police
    D) A pet shop

14. What is Stockton expected to do while he is at work in the airport?
    A) Wear a green scarf
    B) Play with airport users
    C) Bark and run around the baggage claim
    D) Patrol for unwanted goods

May 23, 2020

Deborah Franklin
Manager
Happy Summers Day Camps
334 Forrest Hills Drive
Pine Beach, South Carolina 83365

Dear Ms. Franklin,

I am interested in interviewing for a volunteer position with Happy Summers Day Camps. I have extensive experience working with children and I am particularly excited by the possibility of serving as a volunteer counselor.

I have volunteered as a teacher's assistant at Northridge Elementary School in Florida and I enjoyed helping the students complete in-class activities. As a teacher's aide, I was responsible for setting up classroom projects, provided one-on-one tutoring sessions to the children and accompanied the class during field trips. My favorite part of the job was taking my turn as the recess monitor since I loved being outdoors and playing sports with the kids.

Last winter, I worked at a local recreation center as a lifeguard. I became *CPR certified and was trained in first aid techniques. I also assisted in providing swimming lessons for children aged 3-13.

If you are searching for volunteer counselors for one of Happy Summers' many camps, I would be thrilled to have the opportunity to fill the position. I believe my experience and skills would make me a valuable asset to your team. I also hope that by serving as a volunteer I could gain additional experience as an early childhood educator, which is the field I plan to study when I enroll in college next year.

My summer schedule is very _____ and I am available to volunteer in the evenings, over the weekends and during the day. I hope to hear back from you very soon. Please feel free to reach out to me via email or cell phone. I am more than happy to conduct a phone or video call interview at your convenience.

Thank you for your consideration! I look forward to hearing from you.

Sincerely,

Ellie Johnson

15. Why did Ms. Johnson write this letter?

    A) To apply for volunteer work

    B) To seek for more information about an event

    C) To find out how to be a volunteer counselor

    D) To check with the office for summer camp dates

16. Which of the following best fits the blank in paragraph 5, line 1?

    A) tight

    B) dominated

    C) fulfilling

    D) flexible

17. What sort of experiences does Ms. Johnson probably NOT have?

    A) Teaching children how to swim

    B) Giving private lessons to children at home

    C) Going on a school trip with students

    D) Supporting teachers at elementary school

18. What is Ms. Johnson planning to do next year?

    A) Look for a job as a school counselor

    B) Study education at college

    C) Work at the Happy Summer Day Camps

    D) Teach young children as a volunteer

Chuck: Welcome to the *App Round Up* where we review new apps on the market. My guest today is Marci DeLaurenti. Marci has picked a few apps that people can download to make business travel easier. Marci, welcome.

Marci: Hi, Chuck. Thanks for having me.

Chuck: Marci, you spend a lot of time on the road. What are some apps that make your life more convenient?

Marci: I've got three today, Chuck. The first app is about finding a good place to sleep. When I travel, I need quiet, but I also like interesting hotels. Most hotel apps are for ordinary hotels, but a free app called Comfy is different. Comfy can answer questions to find hotels that fit my needs. _____, sometimes I might choose an architecturally interesting hotel to make a good impression on clients.

Chuck: That sound very useful!

Marci: Once I stayed in a hotel on a boat. I had to take a water taxi to get to my room!

Chuck: So that app is called Comfy then.

Marci: Yes, and it's free!

Chuck: What's the next app, Marci?

Marci: My next app is called TranZ, that's capital T-R-A-N-capital Z. TranZ.

Chuck: What does TranZ mean?

Marci: TranZ stands for *translator*. It's a translation app, which is, of course, very useful for doing international business. TranZ can translate phrases and sentences. I sometimes have to try several times in order to get the right phrase, but I expect the app to get better with time.

Chuck: Is it free?

Marci: No. Producing an app like this takes a lot of work. TranZ costs $10.00, which is a lot for an app, but it's worth it, even if you are just going to use it for checking into a hotel on a family vacation.

Chuck: And your third app?

Marci: My third app is a new one. The B-Fit is a personal trainer that I can take anywhere. It has hundreds of fitness programs you can browse and choose from, so I can use it for changing my workout when I can't go to the gym. Pictures show the exercises while a real human voice helps me keep trying. Best of all is the cost: absolutely free!

Reference: Wilson, K., & Boyle, M. (2016). *Smart Choice Student Book 3* (3rd ed., p. 117). Oxford University Press.

19. What is the purpose of the talk show?
    A) To give advice for creating apps
    B) To introduce useful application programs
    C) To advertise free applications
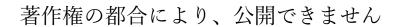   D) To analyze the trend of business software

20. Which of the following best fits the blank in line 10?
    A) As a result
    B) In other words
    C) However
    D) For example

21. According to the passage, what is most likely to be true about Mr. DeLaurenti?
    A) He frequently travels on business.
    B) He works for a computer company.
    C) He never goes to the fitness center.
    D) He developed TranZ.

22. What makes the Comfy app useful, unlike other apps?
    A) If you search for a hotel, Comfy will also show you nearby restaurants.
    B) Comfy will also tell you how to get from the airport to the hotel.
    C) You can search for hotels according to your various needs.
    D) You can receive a free meal by showing the app screen at the hotel.

23. Which of the following does Mr. DeLaurenti NOT mention as good points about the B-Fit app?
    A) It shows the calorie amount burned.
    B) It can be used anywhere.
    C) It's a free app.
    D) It has many fitness programs.

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Reference: Alison, D. (2022, March 24). *Sample thank-you letter for an internship*. The balance. Retrieved September 13, 2022, from https://www.thebalancemoney.com/sample-thank-you-letter-for-an-internship-2063980 (partially revised)

24. Which of the following has the closest meaning to "from the ground up" in paragraph 2, line 5?
    A) starting with the basics
    B) from outdoors to indoors
    C) up to expertise
    D) from digging up the ground

25. How long did Mr. Tamura work for EARTH Nonprofit as an intern?
    A) Three weeks
    B) One month
    C) Two months
    D) Three months

26. According to the passage, which of the following did Mr. Tamura probably NOT do with EARTH Nonprofit?
    A) Create content for social media
    B) Prepare activities to collect money
    C) Conduct environmental research
    D) Attend directors' meetings

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Reference: Educational testing service. (2002). *The official TOEIC test-preparation guide* (Vol. 2, p. 108). The institute for international business communication.

27. What is the purpose of this information?
    A) To notify customers of price changes
    B) To announce the opening of a new library
    C) To advertise a book sale
    D) To recruit new members

28. What is the membership price for a 15-year-old student?
    A) $4
    B) $6
    C) $10
    D) $20

29. What is one benefit for Friends of the Library?
    A) They receive a library's newsletter.
    B) They get a discount at book sales.
    C) They receive an invitation to a book reading.
    D) They get priority in borrowing new arrivals.

30. According to the passage, which of the following is probably NOT related to fund collecting by the Friends of the Library?
    A) Donations
    B) Membership fees
    C) Exhibitions
    D) Fundraisers

WRITING SECTION

Technology affects many aspects of our daily lives, including the types of books we read. Nowadays, there are two types of books: traditional paper books and electronic books or "e-books." Which do you prefer, e-books or paper books? Give your opinion in around 100 words on your answer sheet.

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数学【選択】

注 意 事 項

1　数学の解答用紙は「緑色」です。

2　何か伝えたいことがあるときは挙手してください。

問題1　以下の問いに答えなさい。

（1）SHUNAN という単語の 6 個の文字全部を 1 列に並べるとき，何通りの並べ方があるか。

（2）$\dfrac{2023}{2737}$ を約分しなさい。

（3）不等式 $|x^2 - 2x - 8| < 2x + 4$ を解きなさい。

（4）等差数列 $\{a_n\}$ が，$a_1 + a_5 = 6$，$a_2 + a_4 + a_7 = 11$ を満たすとき，$\{a_n\}$ の一般項を求めなさい。

（5）$x^2 + 2x - xy - 2y = 18$ を満たす自然数の組 $(x,\ y)$ をすべて求めなさい。

問題2　$f(x) = \dfrac{1}{2}x^2 - \dfrac{1}{2}kx + 4$ とする。

点 A $(0,\ -4)$ から放物線 $y = f(x)$ に 2 本の接線を引いたときの接点をそれぞれ B，C とするとき，直線 AB，直線 AC および放物線とで囲まれた部分の面積を求めなさい。

問題3　$f(x) = 3^{2x-1} - 2 \cdot 3^{x-1} - 1$，$g(x) = 3^{-(2x+1)} - 2 \cdot 3^{-(x+1)} + \dfrac{1}{3}$ とする。

次の問いに答えなさい。

（1）$f(x) = 0$ の解を求めなさい。

（2）$g(x) = 0$ の解を求めなさい。

（3）$h(x) = f(x) + g(x)$ とする。$h(x)$ の最小値を求めなさい。

問題4　3 桁の自然数 n について，次の問いに答えなさい。

（1）n が 3 の倍数でないなら，n の各桁の数の和が 3 の倍数でないことを証明しなさい。

（2）n^2 が 3 の倍数であるなら，n は 3 の倍数であることを証明しなさい。