

①薬学部・香川薬学部

② 入試区分

Ⅱ期

③ 出題科目

英語コミュニケーションⅠ・Ⅱ・論理・表現Ⅰ

④ 出題の意図

①長文読解問題では、自然科学、社会科学、人文科学、特に論説文、評論などを論理的に読み解き、理解するために必要となる語彙力、文法力、論理性を判定する。

②発音、アクセント問題では、基本的な英単語を発話でき、聞き取れる力を判定する。

③対話文を使った問題では、文脈に応じた適切な表現ができる能力と語彙力・文法力を判定する。

④語彙・文法問題では、基本的な英文を理解し作成できる基本的な語彙力・文法力を判定する。

英語コミュニケーションⅠ・Ⅱ・論理・表現Ⅰ

解答番号 1 ～ 55

I 次の英文を読み、下の問1～問5に答えよ。なお、*印のある語句には注があるので、参考にせよ。

Technology has been developing, and so how we produce our food has also been expanding. ^(a)In the 1960s when conventional farming methods began, agriculture transformed into agribusiness. Since then, agribusiness has tried to boost yields for food production. In conventional farming, farmers can create improved seeds ^(b)by combining two or more desirable characteristics in the seed. These blended hybrid seeds can realize efficient food production, reducing product loss. For example, ^(c)they can produce colorful uniform shapes of fruits and vegetables. However, growing hybrid seeds takes years and recent advances in biotechnology enable us to adopt more modern farming practices, which is called genetically modified organisms (GMOs).

Scientists have developed genetic engineering techniques that ^(x)tap into the DNA of living things. Breeding of hybrid seeds transfers certain features, but GMOs use genetically modified seeds. For example, scientists add a particular gene to the genome of a living thing, ^(d)by which a new genetically modified organism can be created. (ア) breeding seeds, creating GMOs does not require a long time to transfer desired characteristics. ^(e)Farmers can grow insect-resistant crops by modifying such genes to reduce the use of pesticides. ^(y)Currently, 90% of corn, soybeans, and sugar beets are genetically modified. Many of these crops are sold as animal feed, yet by eating the meat of the animals, we ^(z)unconsciously take in these organisms.

The GM technique is common in raising farm animals and fish. For

example, animal growers can give their livestock growth hormones so their animals grow fast. AquaBounty, a Massachusetts-based company, has (イ) faster-growing salmon using GM technology. Wild salmon normally takes 36 months to reach market size, but these salmon grow (ウ) those in the wild, reaching the size in 18 months. (エ) the *FDA approved this salmon as safe to eat in 2015, (f) this case created a serious controversy about how we should ensure the safety of our food.

(オ) scientists have developed a powerful gene editing technique that is more precise and easier to use than gene engineering. Gene editing technology involves cutting or removing particular genes and then inserting specific genes to give a specific function. (g) This is a powerful technique that alters the DNA easily. In 2018, for the first time, a Chinese scientist announced that he had given birth to twins whose genes had been manipulated. He altered a key gene to give HIV-resistant DNA in the human *embryos. This raised controversies about how we can use these techniques for human well-being.

(出典：Akie Yasunaga. *Imagining a Better Society*. Sanshusha.)

(注) *FDA：(Food and Drug Administration) アメリカ食品医薬品局

*embryo[s]：胚

問1 空欄（ア）～（オ）に入れるのに最も適したものを、それぞれ下の①～④のうちから一つずつ選べ。

空欄 (ア)

1

- ① Compared to ② In addition to
③ Instead of ④ On behalf of

空欄 (イ)

2

- ① risen ② raised ③ laid ④ lied

空欄 (ウ)

3

- ① half as large as ② half as soon as
③ twice as fast as ④ twice as long as

空欄 (工)

4

- ① Similarly ② Although ③ Moreover ④ Whenever

空欄 (才)

5

- ① Furthermore, ② For example,
③ Unfortunately, ④ Since,

問2 下線部(a)～(g)の日本語訳として最も適切なものを、それぞれ下の①～④のうちから一つずつ選べ。

下線部(a) 6

- ① 従来型の農法が確立した1960年代は、農家が兼業農家になった時代でもある。
- ② 従来型の農法が始まった1960年代に、農業は農産業へと変容した。
- ③ 1960年代に方法化された農業の伝統が始まり、農業の産業化を押し進めた。
- ④ 1960年代に提唱された近代農業は、農家に兼業農家への転身を強いた。

下線部(b) 7

- ① 二つあるいはそれ以上を望むという種の交配の特徴によって
- ② 二つかそれより多くの望ましい種の特徴を組み合わせることによって
- ③ 二つを組み合わせるかもっと多くの性質をもった種を探し出すことによって
- ④ 組み合わせた二つあるいはより適切な特徴をもった種によって

下線部(c) 8

- ① それらは色彩豊かな制服に身を包んだ果物と野菜を生産することができる
- ② それらが生産することのできる色とりどりの衣が果物と野菜を形作る
- ③ それらは個性豊かな形の果物と野菜を推奨する
- ④ それらは色とりどりで均一な形の果物と野菜を生産することができる

下線部(d) 9

- ① それによって遺伝子レベルで変更された新しい生命体が生み出される
- ② それによって新たな一般的生命体が創造される
- ③ それにともなって本質的に変更を加えられた新たな組織が生み出される
- ④ それにともなって新たな遺伝子をもつ修正組織が創造される

下線部(e)

10

- ① 農家が害虫に強い作物を育てることが出来るのは、遺伝子修正を加えた殺虫剤のおかげである。
- ② 農家が害虫に対抗できるようになったのは、殺虫剤の使用限度量を引き上げるように、遺伝子を修正したからである。
- ③ 農家は、遺伝子を修正することで害虫に強くなった作物を育てることができ、結果として殺虫剤の使用は減る。
- ④ 農家は殺虫剤の使用を禁止する代わりに、遺伝子を変更した作物を栽培して、害虫に抵抗する。

下線部(f)

11

- ① この件は悲壮な論調を生みだし、私たちがどれほど安全な食を求めているかを確かめることになった
- ② この生み出された技術が悲観的な論争をよび、私たちは食への安全を求めるようになった
- ③ この深刻な事態を生み出したことと、食への安全性を確かめようとする事は矛盾する
- ④ この件は、私たちがどのようにして食の安全を保証するかについて、真剣な論争を引き起こした

下線部(g)

12

- ① これは DNA を簡単に変更できる強力な技術である。
- ② これは高性能な技術であるがそれゆえに DNA を簡単に破壊してしまう。
- ③ これは簡単に DNA にとってかわる革新的な技術である。
- ④ これは威力が大きいため、DNA は簡単に技術で変更可能である。

問3 二重下線部(X) tap into の意味として最も近いものを、下の①～④のうちから一つ選べ。

二重下線部(X) tap into 13

- ① utilize ② compromise
③ reduce ④ participate

問4 二重下線部(Y) Currently と(Z) unconsciously の意味として最も近いものを、それぞれ下の①～④のうちから一つずつ選べ。

二重下線部(Y) Currently 14

- ① Surprisingly
② Before
③ Today
④ Approximately

二重下線部(Z) unconsciously 15

- ① unintentionally
② unwillingly
③ inevitably
④ irrelevantly

問5 次の [1] ～ [5] が、本文の内容に合致する場合は解答欄の①を、そうでない場合には②をマークせよ。

[1] Recent biotechnology enables us to create more efficient pesticides.

16

[2] Modifying seeds genetically is superior to breeding hybrid ones in terms of the speed of realizing desirable traits. 17

[3] The safety of gene-edited fish was globally confirmed in 2015.

18

[4] As of now, the gene editing technique has not been applied to human beings.

19

[5] Some scientists suggest farmers do not use GMOs because of their uncertainty.

20

Ⅱ 次の問1～問8のそれぞれの英単語について、最も強く発音される音節の番号を一つずつ選べ。

問1 tech-nol-o-gy 21
① ② ③ ④

問2 char-ac-ter-is-tic 22
① ② ③ ④ ⑤

問3 ap-pro-pri-ate 23
① ② ③ ④

問4 ad-van-ta-geous 24
① ② ③ ④

問5 fa-vor-a-ble 25
① ② ③ ④

問6 vol-un-tar-y 26
① ② ③ ④

問7 vol-un-teer 27
① ② ③

問8 em-ploy-ee 28
① ② ③

Ⅲ 次の問1～問2の英単語について、最も強く発音される音節の位置が同じものを、それぞれ下の①～④のうちから一つずつ選べ。

問1 per-cen-tage 29
① an-ces-tor ② vol-ca-no ③ cor-res-pond ④ in-flu-ence

問2 oc-cu-pa-tion 30
① il-lu-mi-nate ② pro-vis-ion-al ③ ac-ces-so-ry ④ su-per-fi-cial

IV 次の問1～問10の英単語について、下線部の発音が同じものを、それぞれ下の①～④のうちから一つずつ選べ。

問1 sew 31

- ① few ② low ③ chew ④ view

問2 food 32

- ① fold ② pool ③ women ④ cold

問3 tough 33

- ① bough ② thought ③ though ④ rough

問4 horizon 34

- ① weight ② height ③ freight ④ creature

問5 rain 35

- ① aisle ② claim ③ said ④ leisure

問6 plow 36

- ① owl ② bowl ③ grow ④ blow

問7 burial 37

- ① cleanse ② fury ③ purity ④ amuse

問8 Asia 38

- ① bald ② vary ③ patch ④ major

問9 glove 39

- ① wolf ② prove ③ dove ④ globe

問10 wonder 40

① above

② grove

③ comb

④ tomb

V 次の問1～問5の会話文を完成させるため、空欄 41 ～ 45 に入れるのに最も適したものを、それぞれ下の①～④のうちから一つずつ選べ。

問1 A: Dad, I have to write a report for history class. It's about ancient Rome.

B: That sounds interesting, William.

A: Yeah, but it'll be hard work. 41 I need to do some research.

B: Sure. I'm going to the supermarket, so I'll drop you off on the way.

- ① Can you take me to the library?
- ② Shall we go to Rome for our next vacation?
- ③ Could you teach me about Roman history?
- ④ Would you help me find some books?

問2 A: What are you reading, Ted?

B: *A Night in Paris* by Sonny Coleman. It's really good.

A: Oh, there was an article in this journal about that book. 42

B: Really? I'd love to watch that when it's shown in the theaters.

- ① The journal was sold out.
- ② It's being made into a movie.
- ③ It's based on a true story.
- ④ The article was written by the same person.

問3 A: Tony, I'm going to take the dog for a walk. Do you want to come with me?

B: No, thanks. I want to see the rest of this show.

A: Come on, Tony. 43

B: Oh, OK. I guess it would be good to get some exercise.

- ① You can go to the gym right now.
- ② There's a great show on channel 5.
- ③ You've been watching TV all morning.
- ④ I'm too busy to go there now.

問4 A: Can I bring you another glass of wine?

B: No thanks. 44

A: We have many different types to choose from. I'll get you our drinks menu.

B: Thank you. That would be great.

- ① Just bring me the bill, please.
- ② I'd like a cup of coffee, though.
- ③ The wine tastes much better.
- ④ I don't eat dessert anymore.

問5 A: Hello. My name's Horace. I just moved in next door.

B: Nice to meet you, Horace. I'm Keith.

A: I came to tell you that I'm holding a party tomorrow evening. I hope you can come.

B: That's sounds good 45 My kids go to bed at nine, so please finish by then.

- ① if you hold it on a different day.
- ② as long as it doesn't go on too late.
- ③ because you've invited so many people.
- ④ since you're such a good friend.

VI 次の問1～問10において、空欄 46 ～ 55 に入れるのに最も適したものを、それぞれ下の①～④のうちから一つずつ選べ。

問1 Haru got a postcard from her friend Bell 46 that he would be in town next week and wanted to get together.

- ① be saying ② being said ③ said ④ saying

問2 Because Oscar's painting won first prize in the art contest, it is going to be 47 in the city hall next month. His friends will go there to see it.

- ① displayed ② purified ③ extended ④ revised

問3 When Mr. White retired, the president thanked him for the great 48 he had made to the company over the years.

- ① confliction ② hesitation ③ confidence ④ contribution

問4 A: How would you describe your 49 of life, Jun?

B: Well, ... my basic approach is to do my best in every situation.

- ① incoherence ② philosophy ③ burden ④ experiment

問5 Because of financial difficulties, the company had to lay 50 15 percent of its employees in order to save money.

- ① down ② off ③ around ④ out

問6 Kyoto is known as a city that is 51. Tourism is growing rapidly and many new businesses are opening.

- ① to the point ② on the rise ③ out of stock ④ of no use

問7 Sammel would like to read more novels, but when he gets home from work at night, he is too 52 tired to read. He usually listens to music instead.

- ① silently ② mentally ③ eagerly ④ vividly

問8 Even though Arisa is very busy in Tokyo, she tries to 53 time every week to phone her parents in Okinawa.

- ① save ② keep ③ make ④ move

問9 Shelly always wanted to be a famous conductor. She worked hard and finally 54 her goal after she appeared in Carnegie Hall.

- ① achieved ② detoured ③ postponed ④ composed

問10 Koji was sick last Friday, so he could not perform in the play. Fortunately, the director was able to take his 55 on stage.

- ① knee ② hand ③ place ④ word

解 答 番 号	解 答 欄	解 答 番 号	解 答 欄	解 答 番 号	解 答 欄
1	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩	26	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩	51	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩
2	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩	27	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩	52	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩
3	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩	28	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩	53	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩
4	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩	29	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩	54	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩
5	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩	30	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩	55	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩
6	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩	31	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩		
7	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩	32	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩		
8	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩	33	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩		
9	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩	34	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩		
10	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩	35	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩		
11	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩	36	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩		
12	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩	37	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩		
13	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩	38	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩		
14	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩	39	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩		
15	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩	40	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩		
16	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩	41	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩		
17	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩	42	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩		
18	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩	43	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩		
19	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩	44	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩		
20	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩	45	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩		
21	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩	46	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩		
22	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩	47	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩		
23	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩	48	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩		
24	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩	49	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩		
25	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩	50	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩		