

文部科学省後援

技術英検

1 級試験問題

サンプル

<注意事項>

1. 解答用紙は別紙です。
2. 大問は I から VI まであり、I から IV はマークシート、V と VI は記述式です。
3. 解答用紙には、受験番号、氏名を忘れずに記入してください。
記入漏れの場合は、無効となります。
4. 解答用紙のみ提出してください。
この問題用紙はお持ち帰りいただいても結構です。

I 次の(a)から(e)の英文の ()に入れるべき最適な語を選び、その番号を解答欄に記入しなさい。
(各3点)

(a) This substance is (a-1), so when you use it during the experiment, you must be (a-2) careful.

(a-1) 1. harmless 2. hazardous 3. material

(a-2) 1. alert 2. vary 3. extra

(b) This software is (b-1) to store, organize, and analyze data (b-2) in rows and columns.

(b-1) 1. determined 2. detained 3. designed

(b-2) 1. accustomed 2. solved 3. arranged

(c) The company will launch electric vehicles (c-1) by solid-state batteries, which can store 50% more energy than (c-2) lithium-ion batteries.

(c-1) 1. equipped 2. installed 3. powered

(c-2) 1. compatible 2. conventional 3. adjacent

(d) The following (d-1) the links to the online tutorials on (d-2) to create a website.

(d-1) 1. was 2. are 3. is

(d-2) 1. how 2. what 3. which

(e) The biosphere is the region of the earth (e-1) all living (e-2) such as plants and animals exist.

(e-1) 1. which 2. where 3. since

(e-2) 1. thing 2. fossils 3. organisms

Ⅱ 次の(a)から(d)のそれぞれの英文を、情報を変えずに3C (Correct, Clear, Concise) に則って最も簡潔に書き直した英文を1つ選び、その番号を解答欄に記入しなさい。(各4点)

(a) Print Control deals with the situation where special print commands are input.

1. Print Control performs a particular function such as the entry of printing commands.
2. Print Control handles the input for special print commands.
3. Special print commands are input so Print Control can manage the commands.

(b) If you press the Tire Pressure Monitoring Button for three seconds, you will hear an audible tone.

1. You use the Tire Pressure Monitoring Button to make an audible tone for three seconds.
2. The Tire Pressure Monitoring Button is used for monitoring tire pressure for a vehicle.
3. Pressing the Tire Pressure Monitoring Button for three seconds will produce an audible tone.

(c) Changes in the structure and energy content of atoms, molecules, or ions involve the process that is called a chemical reaction.

1. It is a chemical reaction that involves the transformation of materials.
2. A chemical reaction leads to the transformation of energy contents, such as gasoline and fuel.
3. A chemical reaction is a process that changes the structure and energy content of atoms, molecules, or ions.

(d) In an environment without air resistance, if you took two balls with different masses to the top of a building and dropped them, they would hit the ground at the same time.

1. Without air resistance, balls with different masses would fall to the ground simultaneously when released from a building top.
2. Take two balls with different masses, and at the same time, without air resistance, they would hit the ground.
3. The top of a building would fall simultaneously to the ground with two balls without air resistance to hit the ground.

Ⅲ 次の(a)から(f)の各組の英文が同じ意味になるように、()に入れるべき最適な語を下の1から12より選び、その番号を解答欄に記入しなさい。なお、1から12は1回しか使えません。(各4点)

(a) { A pollution tax is imposed on companies according to the amount of harmful materials they release.
A pollution tax is imposed on companies according to the amount of () they release.

(b) { Two roads intersecting each other at right angles cross through the middle of a ranch.
Two () roads traverse the middle of a ranch.

(c) { A large earthquake hit this region, but these buildings were not damaged at all.
Despite a large earthquake hitting this region, these buildings remained ().

(d) { Preventive maintenance plays an important role in minimizing the time the machines are not operating.
Preventive maintenance plays an important role in minimizing machinery ().

(e) { To heat the food, microwaves cause the water molecules in the food to vibrate and rub against one another.
Microwaves cause the water molecules in food to vibrate, generating () that heats the food.

(f) { Australia's seasons are opposite to those of Japan because it is south of the equator.
Located in the southern (), Australia's seasons are opposite to those of Japan.

- | | | | |
|-------------|---------------|----------------|-------------------|
| 1. downtime | 2. pollutants | 3. halves | 4. friction |
| 5. rubber | 6. hemisphere | 7. pollination | 8. retract |
| 9. intact | 10. perplexed | 11. meantime | 12. perpendicular |

IV 次の英文を読んで、各設問に答えなさい。(各6点)

Imagine you are at the beach on a windy day, and you get a grain of sand stuck in your eye. Your eye will probably feel sore, which might even cause your vision to be temporarily blurred. These symptoms, called dry eye, are temporary in this case, but a dry eye symptom can continue for years.

Some of the common symptoms of dry eye include the following:

- a burning sensation in your eye
- red eyes
- a sore or dry feeling in your eye
- eyelids that stick together often
- eye fatigue
- temporarily blurred vision that gets better immediately following a blink

Dry eye occurs when your eyes don't produce enough tears, when tears aren't spread properly, or when the tears' quality is not good enough. These make the tears evaporate too quickly. It can happen at any age, but the risk of developing the condition increases as you get older. It is estimated that one in three people over the age of 65 suffer from the condition in the U.K.

Luckily, dry eye isn't serious in most cases, and it can be easily managed with eye drops and other forms of medication. Also, there are lots of easy ways that you can improve the comfort of your eyes and improve their moisture levels.

- (**d**) dry and dusty environments
Such environments can make the symptoms of dry eye a lot worse.
- Blink more
This technique is especially useful if you spend a lot of time staring at a computer screen or your phone during the day. Try to make it a habit; for example, each time you look at your screen or down at your keyboard, blink.
- Healthy diet
Make sure that your diet contains a lot of omega-3 fatty acids and that you drink a lot of water.
- Consult a professional
If you are having difficulties in your daily life because of dry eye, you should seek special medical advice, first from your eye doctor.

- (a) 本文のタイトルとして適切なものを以下の選択肢より1つ選び、その番号を解答欄に記入しなさい。
1. The symptoms of dry eye, and how to prevent it
 2. In general, an overall eye fatigue is the reason why dry eye occurs.
 3. Dry eye can occur in any age group, but the condition increases with age.
- (b) 文中でドライアイの症状として挙げられていないものを以下の選択肢より1つ選び、その番号を解答欄に記入しなさい。
1. A pain in the eye
 2. Your eyes' color changes
 3. A change in how you shed tears
- (c) 下線部に意味が最も近いものを以下の選択肢より1つ選び、その番号を解答欄に記入しなさい。
1. One-third of British people over the age of 65 are thought to have dry eye.
 2. In the U.K., only one in three people over the age of 65 were cured of dry eye.
 3. If you are suffering from dry eye, there is a one in three chance that you are over the age of 65.
- (d) (**d**)に入れる単語として適切なものを以下の選択肢より1つ選び、その番号を解答欄に記入しなさい。
1. Determine
 2. Avoid
 3. Consider
- (e) 本文の内容と一致しているものを以下の選択肢より1つ選び、その番号を解答欄に記入しなさい。
1. Most people can suffer from dry eye, but if you are lucky, the symptoms are mild.
 2. You don't need to go to the hospital for dry eye unless it is making it difficult for you to live normally.
 3. If you can have a well-balanced diet when you are young, it will eventually help prevent dry eye when you are older.

V 次の英文(a)、(b)、および(c)はそれぞれ2文で構成されています。3C (Correct, Clear, Concise) に則って内容を変えずにそれぞれ簡潔な1文でリライトしなさい。(各10点)

(a) Air pollution is causing climate change all over the world. Air pollution is caused by driving gas-engine cars.

(b) The average speed of passenger airplanes has remained almost the same for the past few decades. In the past, people thought passenger airplanes would fly faster in the future.

(c) Owls, wolves, bats, and mice are known as nocturnal animals. Animals that are active at night are called nocturnal animals.

VI 次の(a)から(c)より2問選び、3C (Correct, Clear, Concise) に則って英訳しなさい。なお、選んだ2問の記号を解答欄の□に記入しなさい。□に記入がない場合は減点の対象になります。(各35点)

- (a) 火星は24時間と37分で自転し、季節も4つあるが、いずれも非常に寒い。それは、火星は太陽から遠く、太陽の光から十分なエネルギーが得られないためであり、また、大気も薄く、熱をとどめておくことができないためである。
- (b) 電気は人類のために非常に重要な役割を果たしている。電気は光と熱を与え、食べ物の調理を可能にし、産業を発展させ、通信を可能にした。2000年以上も昔から、人間は電気の存在を知っていたが、電気を利用するようになったのは19世紀後半からである。
- (c) 今回の御社の工場の火事につきましては大変お気の毒でございました。弊社としては長年取引をさせていただいている御社より今後も材料の購入を考えております。今回は注文をキャンセルさせていただくほかありませんが、近い将来、御社の工場が再開できるようになり次第、またお願いいたします。

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技術英検 文部科学省 後援

1、2、3級サンプル試験問題 模範解答例

試験時間： 1級 12:20～13:40（80分）
2級 10:50～12:00（70分）
3級 9:30～10:30（60分）

注意事項： 1級 I～IVはマークシート方式、V～VIは記述式
・解答用紙別、試験問題は持ち帰り可
2級 全問マークシート方式
・解答用紙別、試験問題は持ち帰り可
3級 全問マークシート方式
・解答用紙別、試験問題は持ち帰り可

各級とも200点満点
解答用紙、解答欄省略

〒105-8522 東京都港区芝公園 3-1-22
TEL: (03)3434-2350 FAX: (03)3434-2486
<https://jstc.jma.or.jp/> E-mail: jstc@jma.or.jp



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1 級解答

I	(a)	a-1	2
		a-2	3
	(b)	b-1	3
		b-2	3
	(c)	c-1	3
		c-2	2
(d)	d-1	2	
	d-2	1	
(e)	e-1	2	
	e-2	3	

各 3 点 (30 点)

II	(a)	2
	(b)	3
	(c)	3
	(d)	1

各 4 点 (16 点)

III	(a)	2
	(b)	12
	(c)	9
	(d)	1
	(e)	4
	(f)	6

各 4 点 (24 点)

IV	(a)	1
	(b)	3
	(c)	1
	(d)	2
	(e)	2

各 6 点 (30 点)

V	(a)	Driving gas-engine cars causes air pollution, which is changing the global climate.
	(b)	People thought passenger airplanes would fly faster, but their average speed has been almost the same for the past few decades.
	(c)	Nocturnal animals, such as owls, wolves, bats, and mice, are active at night.

各 10 点 (30 点)

VI	(a)	Mars rotates in 24 hours and 37 minutes, and has four different seasons, but they are all freezing cold. This is because Mars is too far away from the sun to get enough energy from the sun's light, and the atmosphere is too thin to keep the warmth inside.
	(b)	Electricity serves human beings in many vital ways. It provides us with light and warmth, cooks food, develops industries, and allows communications. For more than 2,000 years, we have known of the existence of electricity, but didn't start using it until the late 19th century.
	(c)	We are deeply sorry to hear that there was a fire at your factory. We have been buying materials from you for a long time, and we want to continue doing so. Unfortunately, we must cancel our order this time, but we would like to order from you again as soon as your factory restarts.

各 35 点 × 2 (70 点)

2 級解答

I	(a)	3
	(b)	2
	(c)	1
	(d)	2
	(e)	3
	(f)	1
	(g)	2
	(h)	3
	(i)	1
	(j)	2

各 3 点 (30 点)

II	(a)	4
	(b)	3
	(c)	5
	(d)	8
	(e)	6

各 4 点 (20 点)

III	(a)	4
	(b)	2
	(c)	3
	(d)	1
	(e)	2
	(f)	2
	(g)	4
	(h)	1
	(i)	2
	(j)	4

各 4 点 (40 点)

IV	(a)	10
	(b)	2
	(c)	5
	(d)	9

各 5 点 (20 点)

V	(a)	13
	(b)	9
	(c)	6
	(d)	8
	(e)	5
	(f)	12

各 5 点 (30 点)

VI	(a)	4
	(b)	4
	(c)	4
	(d)	1

各 6 点 (24 点)

VII	(a)	1-7	In principle, children (3. under / 6. the / 1. age / 5. of / 7. eighteen / 4. are / 2. not) admitted into colleges in Japan.
	(b)	7-1	The exits are all (4. illuminated / 3. so / 7. that / 6. they / 1. can / 5. be / 2. seen) easily by everybody in the room.
	(c)	3-1	Drones (2. powered / 6. by / 3. jet engines / 7. are / 1. excellent / 5. for / 4. exploring) areas such as valleys and mountains.
	(d)	7-2	Many doctors (4. recommend / 3. that / 7. elderly / 5. people / 2. draw / 6. pictures / 1. because) it is good for their health.
	(e)	2-4	These metals can be shaped (3. easily / 5. when / 2. they / 6. are / 4. heated / 7. to / 1. a) very high temperature.
	(f)	5-4	(7. It / 3. seems / 5. that / 2. the / 4. ship / 6. has / 1. crossed) the ocean and will arrive at the port soon.

各 6 点 (36 点)

3 級解答

I	(a)	2
	(b)	2
	(c)	1
	(d)	3
	(e)	1
	(f)	2
	(g)	3
	(h)	1
	(i)	3
	(j)	3

各 2 点 (20 点)

II	(a)	1
	(b)	3
	(c)	1
	(d)	2
	(e)	3

各 4 点 (20 点)

III	(a)	2
	(b)	3
	(c)	3
	(d)	1
	(e)	3
	(f)	2
	(g)	2
	(h)	3
	(i)	1
	(j)	1

各 4 点 (40 点)

IV	(a)	2
	(b)	5
	(c)	1
	(d)	3
	(e)	4
	(f)	6

各 5 点 (30 点)

V	(a)	4
	(b)	2
	(c)	6
	(d)	5
	(e)	1
	(f)	3

各 6 点 (36 点)

VI	(a)	4
	(b)	1
	(c)	3
	(d)	8
	(e)	6
	(f)	2

各 5 点 (30 点)

VII	(a)	4
	(b)	3
	(c)	2
	(d)	4

各 6 点 (24 点)

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