

令和6年度 八戸工業高等専門学校 本科入学者国際的エンジニア育成特別選抜試験

英語

(解答番号 ~)

(配点)	<input type="text" value="1"/> 30点	<input type="text" value="2"/> 15点	<input type="text" value="3"/> 10点	<input type="text" value="4"/> 6点
	<input type="text" value="5"/> 8点	<input type="text" value="6"/> 14点	<input type="text" value="7"/> 17点	

【注意事項】

1. 試験開始の合図があるまで、この冊子を開いてはいけません。
2. この問題冊子には、英語の問題 (~) があります。
3. もし汚れや落丁などがあれば取り替えますので、手を挙げて申し出てください。
4. 試験開始前に、下記の「記入欄の注意事項」及び「解答欄に解答するときの注意事項」をよく読み、解答用紙の記入欄にそれぞれ正しく記入、マークしてください。

【記入欄の注意事項】

1. 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。
2. 氏名を記入してください。

【解答欄に解答するときの注意事項】

マークは下の(例)のように正しく記入し、解答を訂正したときには、訂正箇所を完全に消し、消しクズを残さないようにしてください。例えば、解答番号5の2にマークする場合、次のようにマークしてください。

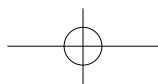
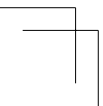
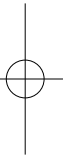
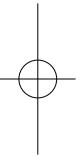
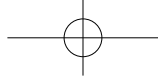
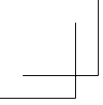
(例)

5	①	●	③	④	⑤	⑥
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次のようなマークは採点されないことがあるので注意してください。

(例)

●	②	③
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1

次の空所に当てはまる語句として最も適当なものを選択肢①～⑤より選びなさい。

- (1) () your mother busy on weekdays?
① Do ② Does ③ Did ④ Is ⑤ Are
- (2) Last Sunday I bought a laptop. Do you have ()?
① another ② one ③ it ④ the other ⑤ other
- (3) There () a lot of water in the lake when I saw it last spring.
① be ② is ③ are ④ was ⑤ were
- (4) Mary and Yumi are very good friends. They () each other since they were children.
① know ② knew ③ are knowing
④ have known ⑤ have been knowing
- (5) I think it won't be so long () we can enjoy space travel.
① that ② until ③ before ④ while ⑤ as
- (6) Yumi's is the most beautiful () these photos.
① in ② of ③ than ④ for ⑤ with
- (7) Tom, you () more sugar – we have much left.
① will buy ② probably buy ③ never buy
④ don't like ⑤ didn't have to buy
- (8) These watches are stylish, but better known () their accuracy.
① for ② by ③ to ④ with ⑤ in

(9) I'll never forget () on that beautiful beach for the first time last summer. 9

- ① walk ② of walking ③ to walk
④ for walking ⑤ walking

(10) The teacher showed the pupils some pictures of Mars, and they looked really () in the pictures. 10

- ① happily ② forward ③ interested ④ exciting ⑤ fun

2 次の () 内の語句を並べ替えて、意味の通る英文を作り、3 番目と 5 番目にくる語句の番号を順に答えなさい。ただし、文頭にくる単語も小文字となっている。

(1) Thank you (① telling / ② way / ③ for / ④ me / ⑤ to / ⑥ the) the harbor. 11 · 12

(2) This book will tell you (① study / ② is / ③ interesting / ④ it / ⑤ how / ⑥ to) Japanese history. 13 · 14

(3) (① anything / ② can / ③ there / ④ that / ⑤ is / ⑥ we) do for you? 15 · 16

(4) Do you want me (① picture / ② you / ③ taken / ④ to / ⑤ the / ⑥ show) by me?
17 · 18

(5) It is the heaviest (① that / ② had / ③ snow / ④ we / ⑤ in / ⑥ have) twenty years.
19 · 20

3

対話が成り立つように、() に入る文を①～④より選びなさい。

(1) A: Can you tell me how often the buses come?

B: (). There comes the bus! 21

- ① Just in front of the station ② Every 12 minutes
③ They'll come as soon as possible ④ Sorry, it has just left

(2) A: Hi, nice to meet you. What's your name?

B: My name is Ken. What's ()? 22

A: Eric. You speak English very well.

B: Thank you.

- ① mine ② the name
③ the matter ④ yours

(3) A: Thank you for everything. I had wonderful time in this village.

B: (). We hope you'll visit our village soon again. 23

- ① We'll miss you
② We're really sorry to hear that
③ I'll show you around the village later
④ I haven't seen you for a long time

(4) A: Where would you like to go?

B: To Patisserie Angelina. Do you know where that is?

A: Is it the cake shop at Plymouth Market?

B: () 24

- ① You should look up their web page on locations.
② I often stop by the shop.
③ Yes, that's the one.
④ The display case was almost empty when I visited last week.

(5) A: How often do you eat out?

B: Oh, very often. I eat out almost five times a week.

A: Really? ()

B: I do for business, so don't envy me. Actually, I'm tired of restaurant food. Sometimes I just want a home-cooked meal.

- ① Are you tired of eating out so often?
- ② I'm jealous!
- ③ Why don't we go out for dinner together sometime?
- ④ You aren't good at cooking, are you?

4

次の各組の英文がほぼ同じ内容になるような（ A ）と（ B ）に入る語（句）の最も適切な組み合わせを、それぞれ①～④の中から一つずつ選びなさい。

(1) The map (A) on the small piece of paper was really useful.

The map (B) on the small piece of paper by him was really useful. 26

- ① A : drawn B : was drawn ② A : he drew B : drawn
③ A : drawing B : drawn ④ A : drawing B : was drawn

(2) My grandfather (A) three years ago.

My grandfather (B) for three years. 27

- ① A : was dead B : has died ② A : died B : has been dead
③ A : died B : has died ④ A : was dying B : has been dead

(3) If you practice soccer hard for one (A) year, you'll be a regular member of the team.

(B) year of hard soccer practice will be necessary for you to be a regular member of the team. 28

- ① A : more B : A ② A : more B : Another
③ A : another B : One ④ A : certain B : Other

5 次の対話文を読んで、後の問いに答えなさい。

Amy : Mary?

Mary : Yes? Oh! Hi Amy, what a great surprise to see a school friend after so many years!

Amy : Indeed it is. What have you been up to?

Mary : I've been doing great. Do you remember a series of photos I shot for school festival posters?

Amy : Of course, I do. I always told you that you would be a great photographer one day.

Mary : Well, I guess (1) you were right on that point.

Amy : What do you mean?

Mary : After college, I studied photography at Wyck School of Photography, and today I am a professional photographer.

Amy : Oh really? That's great! I've never doubted your talent.

Mary : I know, and I believe that the confidence you showed in me was the deciding factor which encouraged me to make my dream come true.

Amy : Don't be modest. It's all your efforts that bore fruit.

Mary : I am not. Believe me. I've never considered my photos of any importance. You saw the talent in me and it gave me the motivation I needed.

Amy : Well then, I guess I deserve a treat.

Mary : You deserve more than that, but a treat is surely in order.

Amy : Let's have coffee.

問1 下線部(1)の意味として適切なものを①～④より一つ選びなさい。 29

- ① その時あなた、確か私の右にいたわよね？
- ② 確かに、あなたは私が素晴らしい写真家になるって言ったわよね。
- ③ 私がいつか素晴らしい写真家になるだろうっていう点では正しかったわ。
- ④ 私が芸術の学校に入ったことはあなたの予想通りだったわ。

問2 本文の内容に合っているものとして適切なものを①～④より一つ選びなさい。 30

- ① Amy and Mary made the school festival posters together.
- ② Amy was able to be a photographer because of a series of her excellent photos.
- ③ Amy's words helped Mary keep motivated to be a photographer.
- ④ Amy's continuous support made it possible for Mary to be a professional photographer.

6 次の文を読んで、(1)～(3)の問題の答えを、それぞれ①～④の中から一つずつ選びなさい。

Karen, a friend of Saki's in the United States, sent an e-mail to Saki.

Hi Saki,

I hear you want to go to college here in future. I send you some of the problems we did in a math class today. You're good at math, right? I guess you can solve them easily.

Give it a try! It's fun.

Bye, Karen.

(1) Tom has twice as many comic books as Kate, and Kate has 19 more books than Chris. What is the number of books Tom has if Chris has 27 books?

- ① 46 ② 65 ③ 73 ④ 92

(2) Ken bought three pairs of socks. Each pair costs 5 dollars. Tom bought two different pairs of socks. Each pair costs 7 dollars. What is the average cost of each pair of socks?

- ① 5.6 ② 5.8 ③ 6.0 ④ 6.2

(3) The school band is selling 200 tickets to raise money for their concert's expenses. Each student ticket sells for 700 yen and each adult ticket sells for 1,200 yen. The club has to make 180,000 yen to cover the expenses. Find the maximum number of student tickets that covers the cost of the concert.

- ① 80 ② 95 ③ 120 ④ 150

7

次の文を読んで、後の問いに答えなさい。

Many people had thought that creative work would be the (A) thing to be automated until 2022 when several powerful AI programs for creating art just by typing in a few words became widely available.

In April 2022, a company called OpenAI announced Dall-E 2, designed to *generate more realistic images *at high resolutions. The tool was available to limited people under the OpenAI's strong controls on the art that can be created. And then several other companies followed. In July, Midjourney Inc. released an open version of Midjourney, and in August, the company called Stability AI released Stable Diffusion. These AI image generators work in similar ways, but Midjourney and Stable Diffusion, compared with Dall-E 2, are free or cheaper, and don't have some of Dall-E 2's limits, which helped these tools to spread rapidly. However, it also raised immediate concern.

In August 2022, Jason M. Allen, (1)(① Colorado ② lives ③ who ④ a game designer ⑤ in), won the first place at the Colorado State Fair Fine Arts Competition. He created his work, "Théâtre D'opéra Spatial" (French for "Space Opera Theater") with Midjourney. This is one of the first AI generated pieces to win such a prize, which shows that people who are not artists can produce beautiful works of art with minimal effort. But at the same time it *provoked artists' fierce anger, and they *accused him. Many artists are upset that they're now competing against (B) for attention, prizes, and jobs. It's hard for a single artist to compete against all the art and photography that has ever appeared on the internet.

The main concern being discussed here is about *copyright which protects original works of creators, and AI art generators are heavy users of copyright.

Applications like Dall-E 2, Stable Diffusion and Midjourney are trained on millions of images *scraped from the open web, including personal art blogs, news sites, and stock photo sites, and not a few copyrights of those images are registered. They find patterns and relationships in those images and generate new ones in the same style. It means that, although the creators of those images haven't given permission for their images to be used, they may be *unwittingly helping to train their competitors. That has raised questions about whether what these tools are doing is fair or not.

As these AI tools have become widespread rapidly, Art community has reacted quickly and

angrily. A few websites, such as Getty Images, *have banned the upload and sale of illustrations generated using AI art tools like Dall-E 2, Midjourney, and Stable Diffusion. Also *some lawsuits have been filed by several artists, generally claiming that these AI art models are trained on billions of images collected from the web without the creators' knowledge or consent.

On the other hand, David Holz, the president of Midjourney, said in a December interview with The Associated Press**:

“Can a person look at somebody else’s picture and learn from it and make a similar picture?” Holz said. “Obviously, it’s allowed for people and if it wasn’t, then it would destroy the whole professional art industry, probably the nonprofessional industry too. To the extent that AIs are learning like people, it’s sort of the same thing and if the images come out differently then it seems like it’s fine.”

The *controversy will continue after 2023, and at the same time the technology will keep improving quickly. It is true that these AI art generators are really helpful for professional artists to test concepts or ideas, but they are using their original works on the internet without *crediting or rewarding them. The problem is that the current copyright laws are not keeping up with the technology, and so, the government needs to protect the right of artists.

注 generate : 生成する at high resolutions : 高解像度で
provoked a fierce anger : 激しい怒りを引き起こした
accused : 非難した copyright : 著作権
scraped : かき集められた unwittingly : 知らず知らずのうちに
have banned : 禁止している
some lawsuits have been filed : いくつかの訴訟が起こされている
controversy : 議論
crediting : 画像、引用文などの出典を明記すること

** The Associated Press.

(引用文献) AP News.com, “AI tools can create new images, but who is the real artist?” by Matt O’Brien and Arijeta Lajka, January 20, 2023

問1 (A)に当てはまる語として適切なものを①～④より選びなさい。 34

- ① first ② good ③ unnecessary ④ last

問2 下線部(1)の語句を並べ替えて、意味の通る英文を作り、3番目と5番目にくる語句の番号を順に答えなさい。 35 ・ 36

問3 (B)に当てはまる語として適切なものを①～④より選びなさい。 37

- ① Dall-E 2 ② computers
③ websites ④ beautiful works

問4 本文の内容にあっているものとして適切なものを①～④より選びなさい。 38

- ① In 2022, AI art generators became widely available because one AI generated work won the first place at a competition.
- ② David Holz argues that AI art generators learn from images created by others, and people do the same.
- ③ The heavy use of images on the web is against copyright laws.
- ④ AI art generators enabled the users to see huge numbers of images on the web at high resolution.

