平成29年度 医 学 部 入 学 試 験 問 題



金沢医科大学

1	In ea	each of the questions $1 - 6$, there is a blank marked Choose the most appropriate answer from each list ll in the blank.						
	1	For your next assignment, first read the passage carefully. You then need to write two or three paragraphs in which you whether or not you agree with the content of the passage, and explain why.						
		① concern	2 understand	③ grow	@ explode	⑤ discuss		
	2	A: I offered Jennie something to drink, but she said she didn't want anything. B: She thirsty, then.						
		① must not be	② could be	③ doesn't have to be	@ can never be	(5) has never been		
	3	3 Welcome to West Medical Center. All visitors must register with the security desk located on the second floobtain a visitor's ID card and entrance to the building.						
		① allow	② to allow	3 to be allowed	4 be allowed	(5) allowing		
	4	A: Hi Kim. Did you manage to get Jeff's phone number from Mary yesterday? B: Oh, hi Beth. Yes, Thanks!						
		① clearly	2 mostly	③ completely	4 shortly	(5) eventually		
	The usefulness of those new techniques and devices cannot be fully appreciated a sufficient number has tested in clinical practice.							
		① without	② by	③ until	4 such as	(5) as long as		
	6 A: There are many reasons some people prefer organic food these days. Organic food is definitely better for our health, and it is also better for the environment. B: But organic vegetables cost much more than regular vegetables, don't they? A:							
	 ① Exactly. That's why everyone eats them. ② Certainly. They should know better. ③ Yes, but consider their benefits. ④ Yes. It's quite reasonable. ⑤ Not at all. They can cause health problems. 							
2	In each of the questions $7 - 10$, there are five underlined parts marked $0-5$. Choose a number which indicates the part that must be changed for the sentence to be correct.							
	7 A: I'd really like your ①advises about ②choosing a theme for the next project. Do you have ③a minute? B: Yes, of course, Angela. My door is always ④open to my students. What's ⑤on your mind?							
	8 New Zealand coasts experience ①a regular dramatic change in sea level ②caused primarily by tides. On the north and west ③coasts the south island, the sea level may change ①up to 4 meters ⑤between high and low tides.							
	9 The court will immediately start Dexamining their claim and the evidence Opresenting and, Sif necessary, Ogive orders to remove the material Sin question from the website.							
	10 OAccording to the newspaper article OI'd read last night, a solar powered airplane Omanaged to land in suburban San Francisco Tuesday morning Owithout incident after Sa daylong flight from Texas.							
3	3 Read the passage below and answer the questions about it.							
	Each year about thirteen hundred seniors graduate from the University of Rochester and begin their journey into 11 many of their parents and professors like to call the real world. Edward Deci, Richard Ryan, and their colleague Christopher Niemiec decided to ask a sample of these soon to be graduates about their life goals—and then to follow up with them early in their (**)careers* to see how they were doing. While much social science research is done with student (**)volunteers, scientists rarely track students after they've packed up their diplomas and exited the campus gates. And these researchers wanted to study the post-college time frame 12 it represents a "critical development period that marks people's transitions to their adult identities and lives." Some of these students had what Deci, Ryan, and Niemiec label "extrinsic aspirations*"—for instance, to become wealthy or to 13 fame—what we might call "profit goals." (1) "Others had "intrinsic aspirations"—to help others improve their lives, to learn, and to grow—or what we might think of as (***)" "urpose goals." (2) "After these improve their lives, to learn, and to grow—or what we might think of as (****)" "urpose goals." (2) "After these improve their lives, to learn, and to grow—or what we might think of as (****)" "urpose goals." (2) "After these improve their lives, to learn, and to grow—or what we might think of as (****)" "Intrinsic aspirations"—to help others improve their lives, to learn, and to grow—or what we might think of as (****)" "Intrinsic aspirations"—to help others improve their lives, to learn, and to grow—or what we might think of as (****)" "Intrinsic aspirations"—to help others improve their lives.							

students had been out in the real world for between one and two years, the researchers tracked (X)them down to see

how they were doing. (3) The people who'd had purpose goals and felt they were attaining* them reported higher levels of satisfaction and subjective well-being than when they were in college, and quite low levels of anxiety and depression. (4) They'd set a personally meaningful goal and felt they were reaching it. In that situation, most of us would likely feel pretty good, too. But the results for people with profit goals were more complicated. Those who said they were attaining their goals accumulating wealth, winning acclaim*-reported levels of satisfaction, self-esteem, and positive affect no higher than when they were students. In other words, they'd reached their goals, but it didn't make them any happier. What's more, graduates with profit goals showed increases in anxiety, depression, and other negative indicators-again, 14 they were attaining their goals. 注 *: extrinsic aspirations = external desires; attaining = reaching; acclaim = enthusiastic praise 1. For 11 - 14 in the passage, choose the most appropriate word or phrase from each list. (5) where 11 ① that 2 those (3) there 4 what 4 so that (5) hut 12 D because 2 before (3) even 13 ① depend on (3) achieve (4) recover (5) succeed 2 purchase (5) even though 3 as if 14 ① as far as (2) in spite of 4 except for 2. For (7)careers and (4)volunteers, identify the most stressed syllable and choose a number for it. 15 (7)careers ca-reers vol·un·teers 16 (1)volunteers (I) (2) (3) 3. Which of the following may NOT be an example of (ウ)"purpose goals"? Choose ONE answer from the list. 17 ① visit a foreign country 2 care for the elderly 3 make a lot of money 4 learn to swim (5) do volunteer work 4. What does (x)them refer to? Choose your answer from the list. 18 ① Deci, Ryan, and Niemiec 2 aspirations (3) others (4) lives (5) students 5. Look at the brackets (① » - « ④ », which indicate where the following sentence could be added to the passage. Choose a number from 1 - 4 that indicates where the sentence would best fit. 19 (That's probably no surprise.)

4 Read the passage below and answer the questions about it.

When he's happy, he will (1) stretch out his arms to greet you, wanting a big hug. When he's sad, he turns his head downward and appears lonely and unhappy, with his shoulders arched forward. When he's scared, he cowers* in fear, until someone pats him reassuringly on the head.

He's just like a one year old boy, except that he's a robot. Nao is about one and a half feet tall, and looks very much like some of the robots you see in a toy store, like the Transformers, except he's one of the most advanced emotional robots on earth. He was built by scientists at the UK's University of Hertfordshire, whose research was funded by the European Union.

His creators have programmed him to show emotions like happiness, sadness, fear, excitement, and pride. While other robots have simple facial and verbal gestures that communicate their emotions, Nao excels in body language, such as posture and gesture. Nao even dances.

Unlike other robots, which specialize in mastering just one area of the emotions, Nao has mastered a wide range of emotional responses. First, Nao locks onto visitors' faces, identifies them, and remembers his previous interactions with each of them. Second, he begins to follow their movements. For example, he can follow (7)their gaze and tell what they are looking at. Third, he begins to bond with them and learns to respond to their gestures. For example, if you smile at him, or pat him on his head, he knows that this is a positive sign. Because his brain has neural* networks, he learns from interactions with humans. Fourth, Nao exhibits emotions in response to his interactions with people. (His emotional responses are all preprogrammed, like a tape recorder, but he decides which emotion to choose to fit the situation.) And lastly, the more Nao interacts with a human, the better he gets at understanding the moods of that person and the stronger the bond becomes.

Not only does Nao have a personality, he can actually have several of them. Because he learns from his interactions with humans and each interaction is unique, eventually different personalities begin to emerge. For example, one personality might be quite independent, not requiring much human guidance. Another personality might be timid and fearful, scared of objects in a room, constantly requiring human involvement.

The project leader for Nao is Dr. Lola Cañamero, a computer scientist at the University of Hertfordshire. To start this (2) ambitious project, she analyzed the interactions of chimpanzees. Her goal was to reproduce, as closely as she could, the emotional behavior of a one-year-old chimpanzee.

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She sees immediate applications for these emotional robots. She wants to use these robots to relieve the anxiety of young children who are in hospitals. She says, "We want to explore different roles—the robots will help the children to understand their treatment, explain what they have to do. We want to help the children to control their anxiety."

Another possibility is that the vehets will become a pulpaling at purpose house." No could become a valuable

Another possibility is that the robots will become companions at nursing homes*. Nao could become a valuable addition to the staff of a hospital. At some point, robots like these might become playmates to children and a part of the family.

says Dr. Terrence Se response of the robot into its response.	gnowski of the Sal	, or even get ar k Institute, ne ation. If the ow	ar San Diego. The rner is angry or d	t—and it will un is is the easy p ispleased, the r	nderstand you and art. The hard par obot has to be abl	I your emotions,' t is to assess the e to (3) <u>factor</u> this
注 * : cowers = moves ba	ck or bends low; neur	al = related to a n	erve; nursing home	s = places where o	ld people can live and	d be cared for
1. For (1)stretch out context from each	, (2) <u>ambitious</u> , ar list.	nd (3)factor, ch	oose ONE word	or phrase for e	ach that is closes	st in meaning in
20 (1)stretch out 21 (2)ambitious 22 (3)factor	① support ① challenging ① participate	② extend ② anxious ② risk	3 loosen 3 impatient 3 imagine	4 undo 4 modest 4 choose	5 bring about 5 doubtful 5 number	© put off © desired © include
2. What does (ア)their	refer to? Choose	ONE answer fr	om the list.			
23 ① creators	2 emotions	3 gestures	① other robots	(5) visitors	6 interaction	ns
3. According to the pa	ssage, which of th	e following stat	ements best desc	ribes Nao? Cho	oge ONE anerrou f	nom the list
(3) Nao is a toy in the part of the part o	are better at expre	buy in toy store t emotionally. the European U to different fro om the list. sssing five differ n with his body e more advance der range of em	m other robots? rent emotions. movements. ed. outions.	Which of the f	ollowing statemen	nts describe his
According to the p application from the	assage, there are following list tha	e a number of t is NOT menti	likely future ap oned.	plications for	emotional robots	. Choose ONE
3 to provide frie4 to play with s	children in hospit endship to people i	als n nursing home	es			
 According to Dr. Seji from the list. 	nowski, which of t	he following pr	edictions about r	obots may beco	me TRUE? Choos	e ONE answer
③ The Salk Insti ④ It won't be har	ment will take a le ll at us if we talk t tute will repair ro rd for us to find a n derstand people's	to them. bots for free. nice friend.				

in health and medicine come with usage instructions, but not exercise. And even though we are told to spend at le minutes engaged in moderate exercise per week, that guideline is so broad that it is meaningless to most people. I have had a problem determining the correct amount of exercise. Although the best level of activity for any individual will be different, the data from two recent large-scale suggests that, generally speaking, he ideal amount of exercise for a long life is a little more than what many of u but we don't have to run marathons. And if we do like extreme exercise like marathons, the latest research alse that intense or prolonged exercise is not likely to be [29] and could extend people's lives by years. These impressive studies were published in 2015 in JAMA* Internal Medicine. One of them, condures exercise habits from six large, ongoing health surveys. They managed to gather data from more than adults. Then, the researchers created categories for these people based on how much they exercised on a weeld. There were those who didn't work out at all and some who exercised to extremes—working out for twenty five he week or more, ten times the current recommendations. (7)Comparing fourteen years' worth of death records for different groups, all of which were made up mostly of middle aged folks, the researchers found that the people didn't exercise at all were at the highest risk of early death. Not so surprising. But what was interesting is the who did some form of exercise below the recommendations lowered their risk of an early death by 20 percent. I huge benefit for a little bit of effort. The individuals who completed the recommended 150 minutes per week of m exercise showed greater longevity benefits. These folks enjoyed 31 percent less likely to die early than people who never exercised. The optimal amount of time, [30], to gain the most benefits was found to be 450 minutes per week, of m exercise showed greater longevity han people who never exercised. The enember of maxing out "thei	re-eserce.							
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30 ① whereas ② in short ③ so far ④ however ⑤ therefore 31 ① surprise ② surprised ② surprised at ④ was surprised at ⑤ surprising								
2. For the underlined sentence (ア), find the MAIN VERB of the sentence. Choose ONE answer from the list.		30 ① whereas ② in 31 ① surprise ② su 32 ① well ② too	a short ③ so far urprised ③ surprised at soo ③ very much	4 however4 was surprised at4 a lot	thereforesurprisingenough			

33 ① Comparing ② records ③ were made ④ found

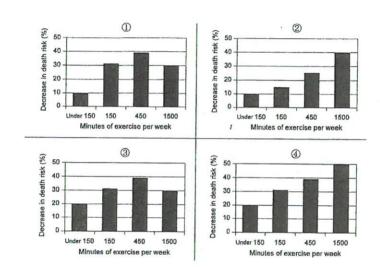
6 didn't exercise

6 were

- 3. What does (1) They refer to? Choose ONE answer from the list.
- 34 ① studies
- 2 researchers
- 3 people
- Australians adults
- 6 six years
- 6) time and level
- 4. Before the publication of the studies mentioned in the passage, which of the following exercise schedules equaled the generally recommended amount of exercise? Choose ONE answer from the list.
- 35 ① about 30 minutes of moderate exercise, 5 days a week
 - 2 about 50 minutes of exercise a day, at least 5 times a week 3 about 150 minutes of light activity, 3 days a week

 - about 150 minutes a day of vigorous activity
 about 450 minutes of moderate activity, every other week
- 5. Which ONE of the following graphs $\bigcirc -\bigcirc$ best matches the data from the first study reported in the passage?

36



- 6. In what way was the study done in Australia different from the other study reported in the passage? Choose ONE answer from the list.
- 37 ① It suggested that the recommended amount of exercise was significantly lower than was previously believed.
 - ② It showed that frequent, vigorous exercise may result in early death.
 - 3 It focused more on determining a recommended level of exercise intensity, and not just exercise amount.
 - (4) It included only people who did vigorous exercise for more than 30% of the recommended amount.
- 7. In this passage, the results of two large-scale studies are reported. Choose ONE answer that best expresses the author's conclusion about the studies.
- 38 The author concluded that
 - 1 there is a connection between exercise amount and death risks
 - 2 there are many people who do, and don't do, enough exercise
 - 3 there is a strong association between age and health in some countries
 - 4 there is no benefit from doing regular exercise