

令和4年8月2日実施

名古屋市立大学大学院医学研究科博士課程入学試験(1回目) 外国人一英語

**I. Read the following sentences and answer the following 5 questions.**

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問題から掲載することができませんので、ご了承ください。



Quoted from : The current evidence of dental care and oral health for achieving healthy longevity in an aging society 2015.

Question 1 Select the most appropriate words to fill in the blanks ① to ④ one by one from the list below. Put the same word in the blanks with the same number. Do not insert the same word in the blanks with multiple numbers.

1. why 2. with 3. well 4. of 5. on 6. other 7. to 8. tall 9. the

Question 2 Fill in the blank ⑤ with the most appropriate word among words listed below.

1. reducing    2. enlarging    3. arising    4. removing

Question 3 Select one of the following sentences that is closest to the meaning of the underlined part (1) and write its number.

1. It affects the therapeutic effect of periodontal disease whether or not the patient smokes.
2. There is no correlation between patient smoking and the therapeutic effect of periodontal disease.
3. The personality that achieves smoking cessation affects the therapeutic effect of periodontal disease.
4. Since smoking cessation of patients is voluntary, it has nothing to do with the therapeutic effect of periodontal disease.
5. Periodontal disease is improved by quitting smoking in patients.

Question 4 Briefly explain two examples of common health hazards caused by smoking that are not mentioned in the article text above.

Question 5 Fill in the blank ⑥ with the most appropriate phrase among phrases listed below.

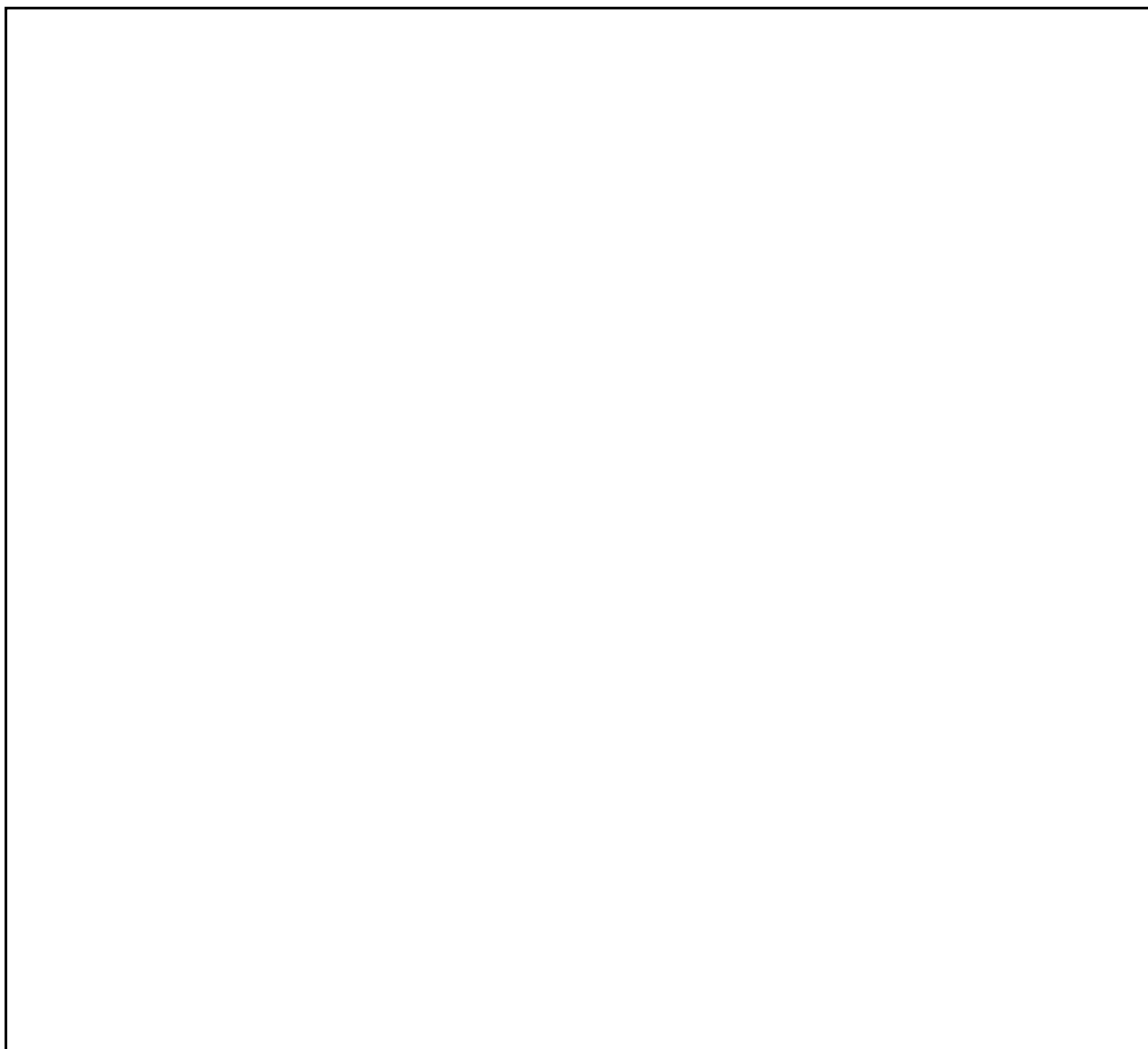
1. on the other hand    2. except for    3. in short    4. as well as    5. that is

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**II. Read the following sentences and answer the following 5 questions.**

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Quoted from : The Art of Creative Thinking by Rod Judkins published in 2015 by SCEPTRE

Question 1 What distinguished Fleming from other scientists?

Question 2 How was penicillin discovered?

Question 3 a. Regarding the underlined part 1), rearrange the words to complete the sentence.

b. Regarding the underlined part 2), rearrange the words to complete the sentence.

Question 4 How was lysozyme discovered?

Question 5 Why did Nokia encourage their staff to eat lunch in their cafeteria?

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名古屋市立大学大学院医学研究科博士課程入学試験(1回目)

医学・生物学一般問題(問題用紙1枚、解答用紙2枚)

Select any two of the following four questions, and write your answers on answer sheets provided.

Use one sheet per question (if you need more space for answers, continue them on the reverse side of the sheet). Please make sure that you write the number of question you selected in the answer sheet.

<Question 1>

Explain the mechanism how intestinal environment such like microbiome influences functions and pathology of the brain.

<Question 2>

Explain the relationship between obesity and chronic inflammation in terms of disease development.

<Question 3>

Explain four major treatments for cancers.

<Question 4>

Regarding post-translational modification (PTM) of protein, answer the following two questions (Q1 and Q2).

Q1: Describe examples of PTM of proteins in mammals.

Q2: Select one of the PTM listed above, and explain the characteristics of PTM, such as the target amino acids, the related enzymes, the organelle in which the modification occur, and its biological significance.