

令和3年8月3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 sentences below and answer the following 5 questions.



Quoted from : CNN health April 29, 2021.

Question 1

Figure out all the factors which cause cancers that mentioned in the sentences, and list 2 cancers for each factor that related to.

Question 2

To compare medieval with current Britons, who is at high risk for cancers? Please chose a) or b).

a) Medieval Britons

b) Current Britons

Question 3

Regarding the sentence underlined (1); how did the researchers investigate to achieve their results? And also clarify the results.

Question 4

Regarding the sentence underlined (2); why Piers Mitchell et al. examined bones?

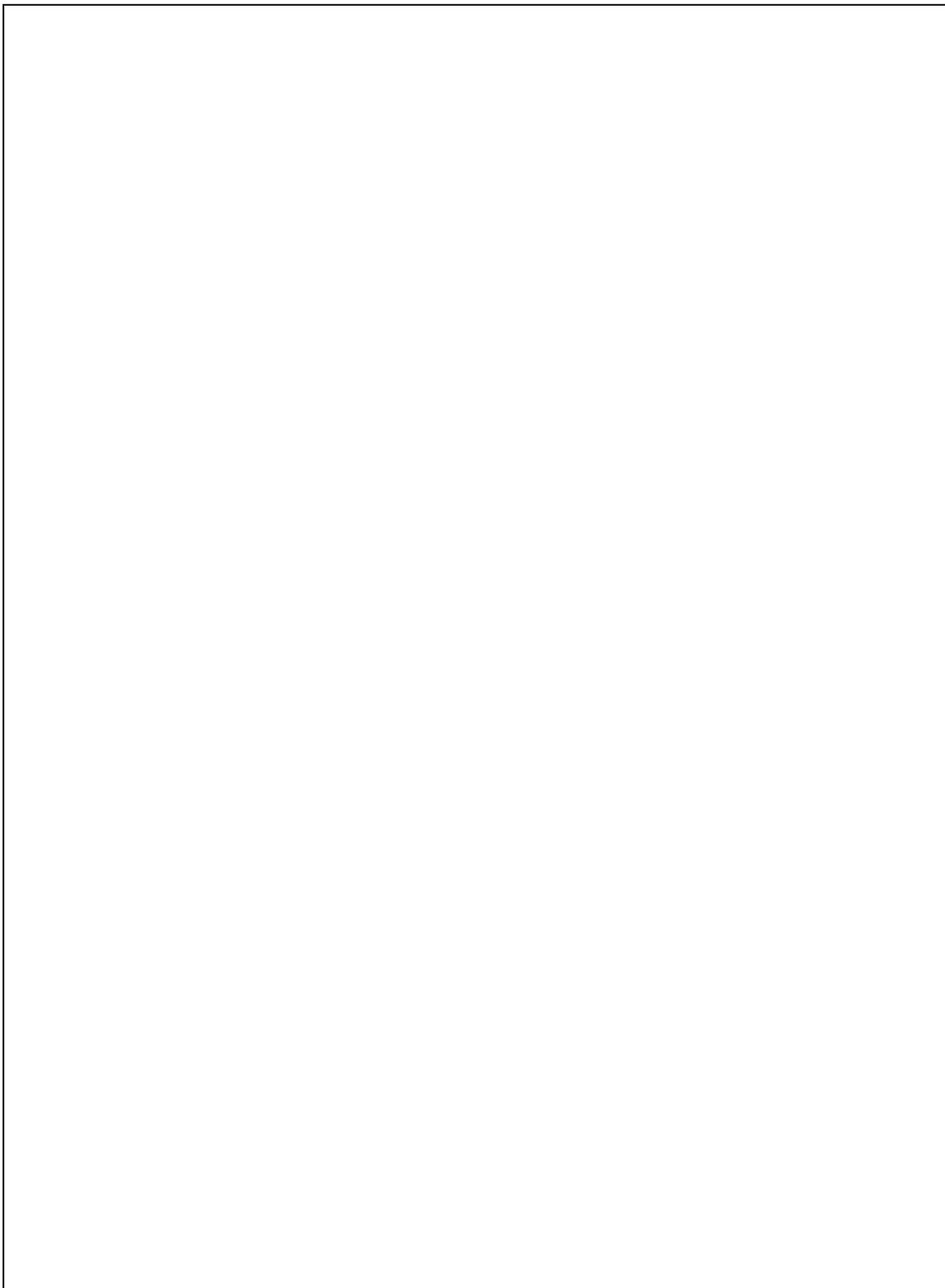
Question 5

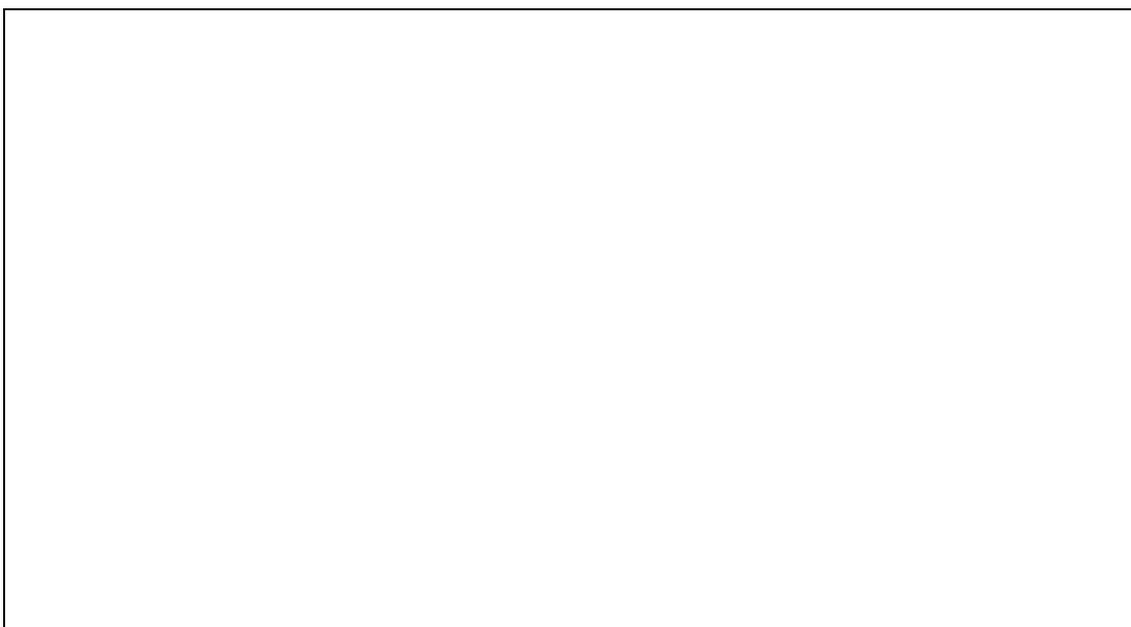
Approximately what percentage of medieval Britons developed cancer? And reveal the scientific basis of the inference.

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





ANTIPODES by David Malouf, published by Chatto & Windus

Question 1

Fill in the blanks ①～③ with the most appropriate word among words listed below.

1. all 2. another 3. any 4. different 5. every 6. no 7. none 8. other
9. same 10. some 11. that 12. those 13. what 14. which

Question 2

Find and write down another expression consisting of two words that has the closest meaning to the underlined part (1).

Question 3

Choose one of the following sentences that is closest to the meaning of the underlined part (2) and write its number.

1. Miss McIntyre and classical music should be involved in Miss Sampson's business
2. Miss McIntyre and classical music should be influenced by someone like Miss Sampson
3. Miss McIntyre and classical music should be looked down on even more than Miss Sampson was
4. Miss McIntyre and classical music should be coupled with someone as unrespectable as Miss Sampson
5. Miss McIntyre and classical music should be considered to be as unprofessional as Miss Sampson

Question 4

Choose one of the following words that is closest to the meaning of the underlined part (3) and write its number.

1. hide my feeling of guilt
2. let me enjoy being alone
3. assure her of my good manners
4. keep her from reading my mind
5. prevent her from telling others my secrets

Question 5

Choose the most appropriate reason why the expression of underlined part (4) is used, and write its number.

1. Because Miss Sampson usually spoke in a mild voice.
2. Because Ben Steinberg heard the same voice oddly changed.
3. Because more and more people were afraid of Miss Sampson's voice.
4. Because the piano in Miss McIntyre's studio sounded as if it were far away.
5. Because Miss Sampson could be heard more easily than all the other women.

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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>

Regarding modifications of physiological function during aging and accompanying changes in drug sensitivity, answer the following two questions (Q1 and Q2).

Q1: Describe briefly on the modifications of physiological function in heart, liver, and kidney during aging.

Q2: Explain how drug sensitivity is modified by aging-associated physiological changes.

<Question 2>

Explain how to determine the localization of proteins and mRNA in tissue sections.

(1) Protein

(2) mRNA

<Question 3>

Pain has long been regarded as an early-warning physiological protective system. In addition, pain is increasingly regarded as a disease state of the nervous system. Explain what you know about "pain"?

<Question 4>

Answer the following questions (Q1 and Q2) about human sex chromosomes.

Q1: Explain what is the sex chromosomes.

Q2: List up several diseases related to sex chromosomes and explain those.