

IV. 下記の英文を読んで、下記の設問に答えなさい。

You can freeze ice cream instantly with me. You can use me to create the fog you need for movie special effects. I come in handy if you're preserving animal cells or performing precision surgery. I can help you turn a humble metal into a superconductor of electricity. (a) In the future, I might even replace gasoline as the fuel for your car.

It's hard to believe, but these diverse achievements are made possible by one substance.

I am in abundant supply in the air around you; 74% of Earth's atmosphere is made up of my molecules. (b) If you've got enough refrigeration power, you can cool down me and condense me, in other words, turn me into a liquid.

So, how cold does it need to be to convert me to my liquid form? I change from a gas to a liquid at a temperature of  $-320^{\circ}\text{F}$ . (c) This makes liquid me an exceptionally cold substance, almost as cold as the surface of the planet Pluto in the farthest corner of solar system.

It sounds like science fiction, but this freezing substance is actually being used by people every day.

(Riverdeep, 2001 より)

molecules : 分子, Pluto : 冥王星, solar system : 太陽系

問1. 下線部(a), (b), (c)を和訳せよ。(各4点, 計12点)

問2. What am I? (8点)