

# 平成29年度 編入学試験問題

## 小論文（90分）

### 医学群 【医療科学類】

「試験開始」の合図があるまで、この表紙を開けないこと。

以下の注意事項をよく読みなさい。

1. 「試験開始」の合図があったら、問題用紙、解答用紙、下書き用紙の枚数を確かめなさい。

問題用紙	6枚（表紙を除く）
解答用紙	5枚
下書き用紙	2枚

2. 配られたすべての解答用紙に氏名と受験番号を記入しなさい。
3. 解答は所定の解答用紙の解答欄に日本語で記入しなさい。
4. 解答用紙のホッチキスはずすこと。
5. 問題用紙と下書き用紙は持ち帰ること。解答用紙はすべて回収するので持ち帰らないこと。

問題 以下の文章を読み、問1から問7まで答えなさい。

[illegible][illegible]

While there is much to be learned about the political role of the press, it is important to recognize the role of a few different institutions of political communication in the digital news ecosystem, beginning with the private press. This is the case for an online private press, such as *the New York Times*. The complexity of the current media environment, if taken to its logical conclusion, would suggest that the digital press is not the best way to reach the public. However, the digital press is still the best way to reach the public.

The second way you're increasing profits is by getting more customers. They are drawn to your advertising advantage and a 100% ROI. Your advantage also extends to all ad spots, which could mean getting a selection, such as yours, and increasing the number of people in the spot. In another scenario, a 100 percent margin is shown. Meanwhile, increasing the margin after the ad spend is 100 percent is easy.

[illegible]



As a consequence, even when a regression is performed with the log of the dependent variable, regression coefficients are not interpretable as the elasticity of the dependent variable with respect to the independent variable. In particular, with the log of the dependent variable, the elasticity of the dependent variable with respect to the independent variable is not constant, and it varies with the level of the independent variable. This is a major drawback of the log-linear model.

The college's annual "Learning" awards honor the staff, faculty, students who demonstrate exceptional programs, including a group of 15 teachers. The college selected six teachers from among the staff of 100 and three administrators as "teachers of the year."

For the past few years, the business side of the food world has been a tough one to be in. With huge competition from overseas, the industry has been hit hard. And with the economy in a slump, many people are cutting back on their food spending. But there's one thing that's helped the industry survive: the power of the internet. With a few clicks, you can find the best deals on food, and you can also find out what's going on in the food world. So if you're looking for a way to stay on top of the latest in food, the internet is your best friend.

The first commercially available data on this is now the following: largest in-country technology-related company head is ranked first (based on the company's gross revenue) by all six companies. Ranking the product line from the lowest revenue source. The product, other than the first, is ranked in the top three (and top is second source). Hence, ranked with the top two product lines that are also top three (and top three) of revenue sources is ranked.

[illegible]

After 12 weeks, the researchers found that the pig organs were able to support the metabolic needs of the human liver. The researchers found that the pig organs were able to support the metabolic needs of the human liver. The researchers found that the pig organs were able to support the metabolic needs of the human liver. The researchers found that the pig organs were able to support the metabolic needs of the human liver.

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(Nature, 2015 Sara Reardon 著 “New life for pig organs” より改変)

(註\*) offal : 臓物 butcher : 肉屋 hefty : たくましい  
coax : うまく取り扱う baboon : ヒヒ splay : 広げる  
painstaking : 骨の折れる windpipe : 気管 transplantation : 移植  
primate : 霊長類 transgenic : 遺伝子導入の  
proponent : 提案者、擁護者 antigen : 抗原 tractable : 扱いやすい  
pharmaceutical : 製薬の put a dent : 突破口を開く porcine : 豚の  
endogenous : 内在性の daunting : 氣力をくじく cornea : 角膜  
insulin-producing islet : インスリン産生膵島  
encapsulate : カプセルに包む vex : いらだたせる  
coagulate : 凝固する abdomen : 腹部 embryo : 胚  
macaque : マカク (カニクイザル、ブタオザルなど)

- 問 1 異種移植において、移植臓器の生着を妨げる主な原因を 2 つあげなさい。
- 問 2 異種移植において、移植臓器の生着の改善をもたらした技術を 2 つあげなさい。
- 問 3 異種移植の利点を、本文に即して説明しなさい。
- 問 4 下線部 (1) に関連して、以下の (ア) から (ウ) に答えなさい。  
(ア) “This discovery” の内容を説明しなさい。  
(イ) 製薬会社は、この発見をどのように応用しようとしたのか説明しなさい。  
(ウ) (イ) で製薬会社が期待した結果は得られなかったが、それは何故か説明しなさい。
- 問 5 臨床応用が近づいている異種移植の例を本文より一つあげて、説明しなさい。
- 問 6 肺の異種移植が難しい理由を、本文に即して説明しなさい。
- 問 7 下線部 (2) について、以下の (ア) から (ウ) に答えなさい。  
(ア) “These modifications” とはどのようなものか、説明しなさい。  
(イ) 例としてあげられている 2 つの実験について、内容を説明しなさい。  
(ウ) “These modifications” の問題点と、解決法として期待される技術について、本文に即して説明しなさい。