

2024年度

推薦入学試験（獣医学類）

# 小論文

10時～11時

1. 小論文の記述はこの裏面を使用すること。
2. 小論文は横書きのこと。
3. 小論文の記述は、最初の行から書き始めること。
4. 小論文中、または受験番号欄に自分の氏名を書かないこと。
5. 受験番号は指定の箇所に必ず横書きに記入すること。  
(記入のないものは無効とする。)
6. 鉛筆（シャープペンシル）を使用のこと。
7. 下書き用紙は提出する必要はない。



問1. 年間約7万2000頭もの犬や猫が自治体等に引き取られ、そのうち約2万4000頭が殺処分されている。これら殺処分の問題を解決する糸口として地域猫\*1のTNR\*2が行われている。このTNRのメリットとデメリットを600字以内、日本語で説明しなさい。

\*1 地域猫：誰が飼い主というわけでもなくその地域で生活している猫で地域住民が各自で自由に食餌を与えて世話をしている猫

\*2 TNR：猫を捕まえて、中性化手術を実施し、もと居た場所に猫を戻す活動

問2. 以下の英文を200字以内で、日本語に要約しなさい。

Artificial intelligence (AI) tools can at least match or even exceed human performance for colorectal cancer (CRC) detection and diagnosis. AI techniques help doctors analyze the patient's medical history and provide the best treatment options. Consequently, this advanced technology has a promising future in processing and handling big data.

Despite the significant benefits of AI applications in CRC diagnosis and treatment, the development of AI-based technology faces several limitations. Indeed, the ability to train a machine to “think” like a human being is a complex task, and its success depends on many factors. Anymore, the use of AI models in common practice raises a whole set of ethical and legal issues. Who has liability when an algorithm makes an error with severe consequences? Is that just the hospital or the doctor who applied it in a certain way? Is it the manufacturer or the regulator of the algorithm who approved it? Any expressed concern about AI

applications should be addressed before their implementation. Professional organizations should also establish guidelines to promote the trustworthy development and application of AI systems in healthcare. Shortly, further research will be required to design the appropriate security and privacy measures to protect and manage medical data safely.

出典：Current Oncology. 2021 Jun; 28 (3): 1581-1607 より一部抜粋

artificial intelligence：人工知能

colorectal cancer：大腸がん

ethical and legal issues：倫理的および法的問題

manufacturer：製造業者

implementation：実施

professional organizations：専門組織

Mitsala, A.; Tsalikidis, C.; Pitiakoudis, M.; Simopoulos, C.; Tsaroucha, A.K. Artificial Intelligence in Colorectal Cancer Screening, Diagnosis and Treatment. A New Era. Curr. Oncol. 2021, 28, 1581-1607. <https://doi.org/10.3390/curroncol28030149>

2024年度

推薦入学試験(獣医学類)  
(学士等・農業大学校)  
小論文

9時30分～11時

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問1. 野生動物が引き起こす問題の具体例と解決の方向について、あなたの考えを600字以内、日本語で説明しなさい。

問2. 以下の英文を200字以内で、日本語に要約しなさい。

Egg prices are soaring in Japan as the current avian flu season sees a record 16 million birds marked for culling, impacting both the restaurant sector and households already struggling with inflation. Egg-laying hens make up more than 90% of birds in the process of being culled, according to the agriculture ministry, limiting the supply of eggs and pushing prices higher. The current bird flu outbreak has spread at an unprecedented pace since the season began in October, with at least 80 cases at poultry farms in 26 of the country's 47 prefectures. Concerns about shortages are also growing, with an increasing number of restaurants opting to suspend offering egg-based dishes. It is expected to take at least six months until egg availability recovers to former levels. Once an infection is confirmed at a poultry farm, all its birds are culled, after which the facility is sanitized and quarantine measures are put in place. It can take between three and seven months for such farms to return to raising chickens as normal again. "Work to resume poultry farming is already under way and production should be active in early spring," a Ministry of Agriculture, Forestry and Fisheries official said. "But it will take some time for numbers to recover because farms won't return to 100% capacity straight away," the official said.

出典：<https://www.japantimes.co.jp/news/2023/03/18/business/economy-business/egg-prices-japan/>  
The Japan Times; Japan egg prices soar amid record 16 million bird flu cullings より一部抜粋

soaring：急騰する、急上昇する

avian flu：鳥インフルエンザ

culling：殺処分

unprecedented：前例のない

poultry：鶏肉、家きん

infection：感染

quarantine：検疫、隔離

Japan egg prices soar amid record 16 million bird flu cullings,  
The Japan Times, Mar 18, 2023 (KYODO)