【問題用紙】

令和８年度　愛媛大学大学院農学研究科入学者選抜学力検査

（生物環境学専攻　環境保全学コース）

外国語

問１～３に答えよ。解答は解答用紙に記入すること。

問１．次の英文（１）～（１０）を和訳せよ。

（１）That suggestion should be rejected owing to the lack of evidence.

（２）The room temperature was maintained at 20°C to prevent degradation of the chemicals.

（３）The purpose of this study is to clarify the molecular weight distribution of this polymer.

（４）Cells continually degrade organic compounds and synthesize new ones at the same time.

（５）In chemical reaction, the step with the highest activation energy is called the rate-limiting step.

（６）The fact is worth paying particular attention because of its implication on the validity of the assumption.

（７）An expert is a person who has made all the mistakes which can be made in a very narrow field.　-Niels Bohr-

（８）Catalysis is the enhancement of the rate of a reaction by a compound not generally present in the chemical equation which describes the reaction.

（９）It is estimated that the total mass of organic materials produced by green plants during the biological history on the Earth represents about 1% of the planet’s mass.

（１０）Photosynthesis is the most important reaction in the many interesting photochemical processes known in biology; not only was the evolution of the Earth’s atmosphere dependent on is, but also animal life derives energy from the Sun by taking plants.

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問２．次の英文の下線部を和訳せよ。

著作権の関係上公表しません

(出典：Characterization of Films Based on Cellulose Acetate/Poly(caprolactone diol) Intended for Active Packaging Prepared by Green Chemistry Principles. ACS Sustainable Chem. Eng. 10, 9141−9154, 2022)

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問３．次の英文を読んで、後の問いに答えよ。

著作権の関係上公表しません

[1]stool：糞便、[2]operational taxonomic unit (OTU)：操作的分類単位（一定以上の類似度を持つ配列同士を 1 つの菌種のように扱うための操作上の分類単位）

(出典：Asnicar, F., Thomas, A.M., Passerini, A. et al. Machine learning for microbiologists. Nat. Rev. Microbiol. 22, 191–205, 2024 を一部改変)

（１） 下線部①の機械学習モデルにより実施可能な例について日本語で２つ説明せよ。

（２） 下線部②の機械学習の２つの分類について日本語でそれぞれ説明せよ。

（３）下線部③を和訳せよ。