

國立嘉義大學九十五學年度
獸醫學系碩士班招生考試試題

科目：專業英文

I. Grammar : (40%, 4% each)

Please identify the one underlined word or phrase that must be changed in order for the sentence to be grammatically correct, and then write your answers on the answer sheet.

1. A litter of ordinary buffer container about 9 grams of salt.
A B C D
2. About one pig on ten is a potential sufferer of digestive disease.
A B C D
3. Skeletal muscles moves bones by pulling on tendons.
A B C D
4. Note that the term *sample* has a specific definition in statistics that are different than its usual definition.
A B C D
5. The heterogeneity of the virus has made it difficult to design effective vaccines based on a single field strain.
A B C D
6. Based on surveys of the polyacrylamide gels of all of the isolates, the reduction in mobility is roughly proportional to the level of divergence between the sequence.
A B C D
7. A major assumption in estimating the date of the common ancestor is that evolutionary rate within a lineage remain constant from its origin.
A B C D
8. Exogenous antigens would consists of the metabolically stable proteins produced by cells.
A B C D
9. In addition to providing antibodies against bacteria, the immune system recognizes and destroys abnormally or foreign cells.
A B C D

10. It focuses on the role of PRV proteins in the pathogenicity, immunogenic and transmission of PRV vaccine strains in pigs.
A B C D

II. Please translate the following paragraphs from English to Chinese. (40%, 20% each)

1. FMD antigen is produced by first growing the virus in cell cultures; filtering the virus harvest to remove debris; and inactivating it using a chemical such as binary ethyleneimine. The resulting antigen is then concentrated, purified, and stored in a cold, secure holding facility. The North American FMD Vaccine Bank stores several FMD antigens, which are sent overseas when a specific vaccine needs to be formulated. The Bank can obtain hundreds of thousands of doses of FMD vaccine within days. Animals that receive the vaccine usually develop some degree of protection against clinical signs of FMD within 7 to 8 days.
2. For analysis of multidrug resistance, a major barrier to effective cancer chemotherapy, we profiled mRNA expression of the 48 known human ABC transporters in 60 diverse cancer cell lines (the NCI-60) used by the National Cancer Institute to screen for anticancer activity. The use of real-time RT-PCR avoided artifacts commonly encountered with microarray technologies. By correlating the results with the growth inhibitory profiles of 1,429 candidate anticancer drugs tested against the cells, we identified which transporters are more likely than others to confer resistance to which agents. Unexpectedly, we also found and validated compounds whose activity is potentiated, rather than antagonized, by the MDR1 multidrug transporter. Such compounds may serve as leads for development.

III. Please translate the following paragraph from Chinese to English. (20%)

肺臟中一部分或全部肺泡的空氣容量過度增加稱為氣腫，一般可分為肺泡性和間質性二種。肺氣腫和膨脹不全的病變剛好相反，氣腫的肺組織外形鼓起，顏色由於局部貧血而呈灰白和乾躁狀態。