

# 國立臺北科技大學 100 學年度碩士班招生考試

系所組別：4420 服務與科技管理研究所乙組

## 第二節 計算機概論 試題

第一頁 共一頁

### 注意事項：

1. 本試題共十題，每題十分，配分共 100 分。
2. 請標明大題、子題編號作答，不必抄題。
3. 全部答案均須在答案卷之答案欄內作答，否則不予計分。

1. What is meant by the term real-world knowledge, and what is its significance in artificial intelligence?
2. Explain the frame problem in the artificial intelligence field.
3. Images seen by a human tend to linger in the human's perception for approximately 200 milliseconds. Based on this approximation, how many images per second must be presented to the human to create animation? How does this approximation compare to the number of frames per second used in the motion picture industry?
4. Please explain the three steps involved in producing an image using 3D graphics.
5. How does data mining differ from traditional database inquiries?
6. Describe a class that would be used as a template for constructing objects of type queue-of-integers.

7. What would be a good test to perform on a software package that was designed to sort a list of no more than 100 entries?
8. Describe the three major steps in the translation process.
9. What sequence of numbers would be printed by the following recursive procedure if we started if we started it with N assigned the value 1?  
procedure Exercise (N)  
print the value of N;  
if (N < 3) then (apply the procedure Exercise to the value N + 1);  
print the value of N.
10. Using a breadth-first approach, draw the search tree that is constructed by a control system when solving the eight-puzzle from the following start state:

1	2	3
4	8	5
7	6	