There are 20 questions, 5 points for each question. You may answer in either Chinese or English

1. What is cloud computing?

2. Explain the main characteristics of cloud computing: On-demand self service and Ubiquitous network access

3. What does it mean by Rapid elasticity in cloud computing?

4. In cloud computing, we say measured service, what does it mean?

5. What are the main concerns in cloud security?

6. What is two's complement in integer representation? How to represent -3 with two's complement.

7. What is exclusive or operation in logics?

8. Compare Registers, Cache, and Main memory, which one is the fastest, which one is the most expensive?

9. List OSI Seven layers in networking.

10. What is TCP/IP?

11. What is Algorithm?

12. Write a computer program in pseudo codes that will search an array of N elements for the second largest element.

13. What is software engineering?

14. List at least two important data structures

15. What's the difference between Stacks and Queues?

16. What are the advantages of databases?

17. Explain the terms in computer security (1) Confidentiality (2) Integrity (3) Availability.

18. What's the difference between symmetric key cryptography and asymmetric key cryptography?

19. Explain the term DDoS.

20. Explain RSA and AES cryptography algorithms