To binary:

297 AE8

To denary:

10100101 F23

1. Two’s complement: -90

11001001

+ 10001001

1. ASCII VS Unicode
2. What’s lossless compression?
3. How sound is captured and stored?
4. What’s bit depth? What’s sample resolution?
5. Explain the process of F-E cycle.
6. What could improve CPU performance?
7. Benefits and drawbacks of barcode and QR code.
8. Explain MAC Address, IP Address, router, NIC.
9. Difference between RAM/ROM, SRAM/DRAM.
10. Explain how a sensor could work in an air conditioner system?
11. Difference between DLP and LCD projector.
12. Explain SSD Endurance, Data Redundancy and Disk Thrashing.
13. 4 stages in program development life cycle. 4 stages in the Analysis part. 4 things a problem could be decomposed.
14. Four types of test data. If the data range is -1000~1000, give examples of each.
15. Explain validation and verification.
16. Draw the graph and give the truth table of :

Z=(A XOR B) AND NOT (B NOR C)

