

Question Bank

a. Architecture of 8087

- Q1. Give five differences between the main processor and the coprocessor
- Q2. How does 8086 distinguish its instructions from 8087 instructions as it fetches from memory
- Q3. What is the role of busy pin 8087, when it is interfaced with 8086?
- Q4. In which mode 8086 is interfaced with 8087 and why
- Q5. Explain major blocks of 8087

b. Data types, instructions and programming

- Q1. What are the minimum and maximum values can be represented in all types of data
- Q2. What are the different steps involved in converting a short real number to a decimal number
- Q3. What are the different steps involved in converting a decimal number to a long real number
- Q4. Write an 8086/87 assembly program to compute the total surface area of a sphere. The formula is $4 \cdot \text{PI} \cdot R^2$ where R is a real number
- Q5. What are the differences between rounding and truncation? Explain with examples