

INFORMATION TECHNOLOGY

Problem Solving Quiz

Questions

1. Explain the two major phases in problem solving.

2. Explain the difference between a syntax error and a logic error.

3. What do the letters I, P and O refer to in an IPO chart?

4. Explain the purpose of an IPO chart.

5. Use an IPO chart in each of the following examples.

- a) Calculate Jenny's weekly pay, if she is paid by the hour and she works for \$20 an hour.
- b) Find the final mark of a course. The final mark consists of a course work mark and an exam mark.
- c) Enter the length, width, and height of a cube and find the area of the cube.

6. Write a structure algorithm that calculates the average of three numbers.

7. Write a structure algorithm that will convert a temperature in Celsius to Fahrenheit. Use the formula $F = \frac{(9 \times C)}{5} + 32$ where C is the temperature in degrees Celsius and F is the temperature in degrees Fahrenheit.

For Ques. 6 & 7 do an IPO Chart and the Algorithm