1. Which of the following statements are true about the PC in MIPS32?

   (a) It is a part of the 32 registers 0-31.

   (b) There is no such thing as a Personal Computer cannot use MIPS32.

   (c) It is incremented by 1 after each sequential instruction execution.

   (d) It is a 32-bit register.

   Answer: (d)

2. Which of the following is the correct order of the loop in which the processor performs operations?

   (a) prepare, commit

   (b) instruction fetching, execution

   (c) data read, data write

   (d) code compilation, assembling

   Answer: (b)

3. The number of gates/transistors per chip is limited primarily by:

   (a) the purification limit of semiconductors

   (b) the power consumption of the chip

   (c) availability of silicon

   (d) the amount of parallelism in real-world algorithms

   Answer: (b)

4. The MIPS `add` instruction adds:

   (a) a given register to an accumulator

   (b) exactly 2 registers

   (c) exactly 3 registers

   (d) sometimes 2, sometimes 3 registers

   Answer: (b)

5. Which of the following are greenhouse gases? Select all that apply. (**House points question, optional**)

   (a) Water vapour

   (b) Oxygen

   (c) Carbon dioxide

   (d) Methane

   Answer: (a), (c), (d)