

Computer & Hardware

1. ROM (Read Only Memory) is:
 - a) programmed once in manufacture and is non-volatile
 - b) can be programmed many times and is non-volatile
 - c) is a volatile memory that cannot be reprogrammed

2. The three buses, found within a computer are:
 - a) databus, clock bus and address bus
 - b) clock bus, address bus and function bus
 - c) address bus, databus and control bus

3. In a computer system, a Read Only Memory device is:
 - a) volatile
 - b) non-volatile
 - c) both volatile and non-volatile

4. Read only memory devices are 'Mask Programmed':
 - a) by the user
 - b) by ultra-violet light
 - c) during manufacture

5. A Programmable Read Only Memory (PROM) is programmed by:
 - a) internal fuses
 - b) ultra-violet light
 - c) electrical voltage

6. An Erasable PROM can have it's data reset by:
 - a) ultra-violet light
 - b) infra-red light
 - c) visible light

7. The Electrical Erasable PROM can have it's data overwritten:
 - a) once only
 - b) many times
 - c) never

8. The term 'dynamic RAM':
 - a) means the memory must be updated frequently
 - b) indicates that a low power non-volatile memory is used
 - c) denotes that a powerful memory system is in use

9. 4 bit weighted resistor DAC (Digital to Analogue Converter) would require a maximum:
 - a) value of resistor to be equal to $16R$
 - b) value of resistor to be equal to $8R$
 - c) supply voltage of + and $5V$

10. If a fast ADC (Analogue to Digital Converter) is required:
 - a) one using R2R would be the most appropriate
 - b) a single ramp converter with a fast clock would be used
 - c) a parallel or flash converter would be preferred