

- (2) **What is the purpose of virtual memory?**
a) To store frequently accessed data for quick retrieval
b) To increase the effective size of RAM using disk space
c) To store the BIOS settings
d) To act as a replacement for cache memory
- (3) **Which of the following is a volatile memory?**
a) ROM
b) RAM
c) EEPROM
d) Flash Memory
- (4) **Which of the following is NOT an input device?**
a) Keyboard
b) Mouse
c) Printer
d) Scanner
- (5) **Which of the following is NOT a valid Boolean law?**
a) $A+0=A$
b) $A \cdot 1=A$
c) $A+A^{\bar{}}=0$
d) $A+A=A$
- (6) **In an RS flip-flop, what happens when both RRR and SSS inputs are 1 simultaneously?**
a) Set state
b) Reset state
c) Invalid state
d) No change
- (7) **In the octal system, the digit 8 is represented as:**
a) 10
b) 8
c) 11
d) Invalid
- (8) **Which register holds the address of the next instruction to be executed?**
a) Accumulator
b) Program Counter (PC)
c) Instruction Register (IR)
d) Memory Address Register (MAR)
- (9) **How many inputs and outputs does a Half Adder have?**
a) 1 input, 1 output
b) 2 inputs, 1 output
c) 2 inputs, 2 outputs
d) 3 inputs, 2 outputs
- (10) **Which gate is known as the "universal gate"?**
a) AND gate
b) OR gate
c) NAND gate
d) XOR gate
- (11) **The ALU (Arithmetic Logic Unit) performs:**
a) Only arithmetic operations
b) Only logical operations
c) Both arithmetic and logical operations
d) Memory management
- (12) **What is the binary equivalent of the decimal number 25?**
a) 11011
b) 10101
c) 11001
d) 10011

**** All the Best ****