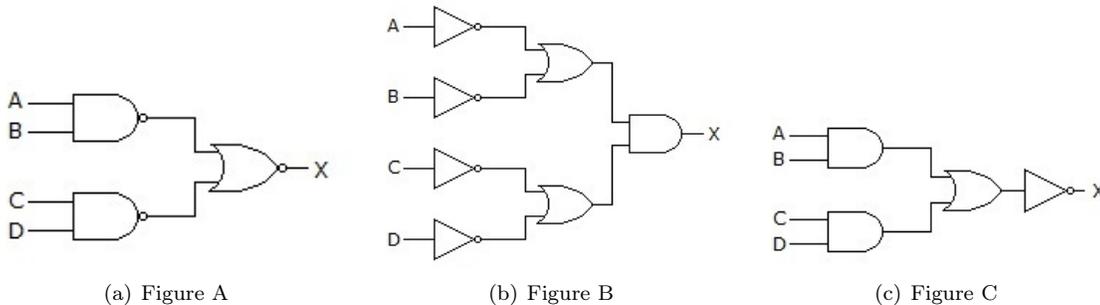




- | | |
|--|--|
| 1 You should attempt all requested parts | • No of Questions 1 in 2 page(s) |
| 2 You should mark your answer clearly | • Exam Model: ECE201735701 (Total Mark: 10) |
| 2 Calculator is Not Allowed | • Examiner: Dr.Ahmed Bayoumi-Dr.Shady Elmashad |

1. Identify the choice that best completes the statement or answers the question.

- (1) for logic circuit (a) if $A = 1, B = 0, C = 1$ and $D = 1$ the output will be **A. Zero** B. One
- (2) for logic circuit (b) if $A = 1, B = 1, C = 1$ and $D = 1$ the output will be **A. Zero** B. One
- (3) for logic circuit (c) if $A = 1, B = 1, C = 0$ and $D = 0$ the output will be **A. Zero** B. One
- (4) Logic circuit (a) can be represented by expression
 A. $(A.B)' + (C.D)'$ B. $A'.B' + C'.D'$ C. $(A' + B') + (C' + D')$ **D. $A.B.C.D$**
- (5) The Boolean expression $(A' + B)(A + B)$ can be simplified to A. Zero B. One C. A **D. B**



- (6) Which of the logic circuits in the figure is equivalent?
 A. a and b B. a and c **C. b and c** D. None of the above
- (7) The value of $(1100)_2 + (0001)_2$ equal **A. 1101** B. 1100 C. 1000 D. 1
- (8) The last step in the machine cycle is A. fetch B. execute C. decode **D. store**
- (9) is the distance between each pixel on the screen measured in millimeters.
A. Dot pitch B. Screen size C. Resolution D. LCD
- (10) The half adder circuit consists of two gates
 A. OR . AND B. NOR . AND C. XNOR-AND **D. XOR-AND**
- (11) A touchscreen device is an example of a(n) ...
 A. processing device B. output device C. storage device **D. input/output device**
- (12) How many truth table entries are necessary for a four-input circuit? A. 8 B. 4 C. 12 **D. 16**
- (13) Data is stored temporary at A. USB B. Hard Disk C. Tape **D. None of the above**
- (14) Loading the operating system into a personal computer is called
A. Booting B. Interrupting C. Prompting D. Paging
- (15) The sum and carry values of $(0111)_2 + (1001)_2$ are
 A. Sum = 0 and Carry = 0 **C. Sum = 0 and Carry = 1**
 B. Sum = 1 and Carry = 0 D. Sum = 1 and Carry = 1
- (16) operating systems have the ability to run more than one application program at a time.
A. Multitasking B. Single-tasking C. Extra D. Hyper



- (17) The logic gate that will have LOW or .0. at its output when all of its inputs is HIGH is:
A. AND gate B. OR gate **C. XOR gate** D. None of the above
- (18) A ... is a printer that uses a pen that moves over a large revolving sheet of paper.
A. multifunction printer B. motherboard **C. plotter** D. scanner
- (19) The value $(2A)_{16}$ in a octal system is A. 42 **B. 52** C. 42 D. 32
- (20) The OS uses memory as an extension of RAM.
A. Virtual B. Primary C. Secondary D. Controllable
- (21) CPU perform the operation(s)
A. Data transfer **B. Logic operation** C. Printing operation D. All of the above
- (22) All the following are considered characteristics of computer except
A. speed B. capacity C. reliability **D. size**
- (23) is operating system utility
A. Memory management B. Kernel C. Multitasking **D. Backup software**
- (24) is the amount of time needed to execute an instruction.
A. Machine cycle B. CPU cycle C. Primary cycle D. Main cycle
- (25) The value $(4B)_{16}$ in a decimal system is **A. 75** B. 740 C. 4A D. A4
- (26) is a command line operating system **A. Dos** B. Windows C. Android D. Linux
- (27) The value $(101001)_2$ in a decimal system is **A. 41** B. 42 C. 44 D. A4
- (28) A CD drive is an example of a(n) access A. Sequential B. Random **C. Optical** D. Magnetic
- (29) The value $(1101001)_2$ in a octal system is A. 105 **B. 151** C. 69 D. 51
- (30) The value $(65)_{10}$ in an octal system is A. 245 B. 101100101 **C. 101** D. A5

Name: _____ ID Number: _____ Points...../30

<p>1. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D</p> <p>2. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D</p> <p>3. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D</p> <p>4. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D</p> <p>5. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D</p> <p>6. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D</p> <p>7. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D</p> <p>8. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D</p> <p>9. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D</p> <p>10. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D</p>	<p>11. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D</p> <p>12. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D</p> <p>13. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D</p> <p>14. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D</p> <p>15. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D</p> <p>16. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D</p> <p>17. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D</p> <p>18. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D</p> <p>19. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D</p> <p>20. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D</p>	<p>21. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D</p> <p>22. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D</p> <p>23. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D</p> <p>24. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D</p> <p>25. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D</p> <p>26. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D</p> <p>27. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D</p> <p>28. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D</p> <p>29. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D</p> <p>30. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D</p>
--	---	---

