

### **CITM207 - Practice Midterm questions**

1. Which of the following is used to perform a calculation in a spreadsheet?

- A. what-if
- B. range
- C. formula
- D. cell
- E. circular reference

Ans: C

2. Which of the following designates a single location in a spreadsheet?

- A. what-if
- B. range
- C. formula
- D. cell
- E. circular reference

Ans: D

3. Which of the following database elements is composed of a set of related data items, such as a person's name, address, and id number?

- A. record
- B. key
- C. field
- D. query
- E. table

Ans: A

4. Which of the following is composed of a related set of database records?

- A. SQL
- B. key
- C. field
- D. query
- E. schema

Ans: E

5. Which of the following contains the address for accessing a Web page?

- A. uniform resource locator
- B. web server
- C. web browser
- D. weblog
- E. cookie

Ans: A

6. XML is an example of which of the following?

- A. document type definition
- B. applet
- C. scriptlet
- D. XSL
- E. metalanguage

Ans: E

7. Which of the following describes a natural number, the negative of a natural number, or zero?

- A. number
- B. imaginary number
- C. integer
- D. negative number
- E. rational number

Ans: C

8. What is the largest digit in the octal number system?

- A. 1
- B. 2
- C. 7
- D. 8
- E. 9

Ans: C

9. How many things can be represented using three bits?

- A. 3
- B. 4
- C. 6
- D. 8
- E. 12

Ans: D

10. In which text compression technique is it invalid for a bit string that represents a character to be the prefix of any other string used to represent a character?

- A. run-length encoding
- B. character set encoding
- C. keyword encoding
- D. Huffman encoding
- E. ASCII encoding

Ans: D

11. Which gate does the following logic symbol represent?



- A. AND
- B. NAND
- C. XOR
- D. OR
- E. NOR

Ans: E

12. Which gate does the following Boolean expression represent?

$$X = A \bullet B$$

- A. AND
- B. NAND
- C. XOR
- D. OR
- E. NOR

Ans: A

13. Which gate does the following truth table represent?

A	B	X
0	0	0
0	1	1
1	0	1
1	1	0

- A. AND
- B. NAND
- C. XOR
- D. OR
- E. NOR
- F. NOT

Ans: C