



1. (Single-Answer Question) When was artificial intelligence (AI) first proposed? ()
 - A. 1946
 - B. 1960
 - C. 1916
 - D. 1956

2. (Multiple-Answer Question) What are the elements of AI? ()
 - A. Algorithms
 - B. Computing performance
 - C. Data
 - D. Scenarios

3. (Multiple-Answer Question) Which of the following statements about Python are true? ()
 - A. It was created by Guido van Rossum, the Dutchman, in 1989, and it was first released in 1991.
 - B. Python is a kind of free software and its open-source code complies with the GPL (GNU General Public License) Protocol.
 - C. The Python syntax is simple and clear, characterized by using blank characters for indentation.
 - D. Python is often nicknamed "glue language" because it can easily glue together various modules developed in other languages.

4. (True or False) Multiple Python statements can be written in one line with commas (,) between the statements. ()
 - A. TRUE
 - B. FALSE

5. (Single-Answer Question) Which of the following is not a Python operator? ()
 - A. Arithmetic operator
 - B. Inference operator
 - C. Logical operator

D. Comparison operator

6. (Single-Answer Question) Which of the following statements about Python regular expression is not true? ()

- A. re regular expression module was added in Python 1.5.
- B. re module grants all regular expression functions to Python.
- C. re regular expression is a powerful tool to process strings.
- D. re regular expression can only process character string data, not numerical data.

7. (True or False) The trace operation returns the sum of the diagonal elements of the matrix. So the trace of matrix A is the same as that of its transposed matrix. ()

- A. TRUE
- B. FALSE

8. (Single-Answer Question) Which of the following is not the main idea of linear algebra? ()

- A. Probability theory
- B. Linear transformation
- C. Matrix theory
- D. Vector space

9. (Single-Answer Question) A is a 3 x 2 matrix, B is a 2 x 3 matrix, and C is a 3 x 3 matrix. Which of the following operations is valid? ()

- A. AC
- B. BC
- C. A+B
- D. AB-BC

10. (True or False) Principal Component Analysis (PCA) is a statistical method. It uses orthogonal transformation to convert a set of possibly correlated variables into a set of values of linearly



dependent variables called principal components. ()

- A. TRUE
- B. FALSE

11. (True or False) Correlation coefficient, also called the linear correlation coefficient, measures a linear relationship between two variables. Its value is a real number greater than 0. ()

- A. TRUE
- B. FALSE

12. (Single-Answer Question) Suppose X and Y are random variables and C is a constant, which of the following about mathematical expectation properties is not true? ()

- A. $E(C)=C$
- B. $E(X+Y)=E(X)+E(Y)$
- C. $E(CX)=CE(X)$
- D. $E(XY)=E(X)E(Y)$

13. (Multiple-Answer Question) What are the characteristics of TensorFlow? ()

- A. Open source
- B. Convenient
- C. Well-developed
- D. Flexible

14. (True or False) Operations and computation graph of TensorFlow do not necessarily run in the Session. ()

- A. TRUE
- B. FALSE

15. (Single-Answer Question) Which of the following is not a Deep Learning development framework? ()



- A. CNTK
- B. Keras
- C. BAFA
- D. MXNet

16. (True or False) GAN is a Deep Learning model. Recently, it is one of the most promising methods for unsupervised learning in complex distribution. ()

- A. TRUE
- B. FALSE

17. (Single-Answer Question) According to PEP 8, how many spaces should the first line be indented by in Python? ()

- A. 1
- B. 2
- C. 4
- D. 8

18. (Multiple-Answer Question) Training error causes underfitting by reducing model accuracy. How can the model be a better fit? ()

- A. Increasing data volume
- B. Creating feature engineering
- C. Reducing regularization parameters
- D. Adding features

19. (Single-Answer Question) Which of the following statements about gradient descent is not true? ()

- A. Stochastic gradient descent is a common form of gradient descent.
- B. Gradient descent includes stochastic gradient descent and batch gradient descent.
- C. The gradient descent algorithm is fast and reliable.



D. Stochastic gradient descent is one of the commonly used optimization algorithms in Deep Learning.

20. (Single-Answer Question) Which of the following is not involved in the three types of services for Huawei Cloud EI to construct enterprise intelligent services? ()

- A. Basic platform services
- A. General domain services
- B. Industry services
- C. Integration services
- D. Answers:

1. D 2.ABCD 3. ABCD 4.B 5.B 6.D 7. A 8.A 9.B
10.B 11.B 12. D 13. ABCD 14.B 15.C 16.A 17.C 18.ABD 19.C 20.D