

數據科學與隱私

Practice Worksheet

A. Vocabulary - Write the English word

Write the correct English word for each Chinese meaning.

1. 數據科學 (n.) _____
2. 大數據 (n.) _____
3. 隱私 (n.) _____
4. 監控 (n.) _____
5. 演算法 (n.) _____
6. 分析 (n.) _____
7. 機器學習 (n.) _____
8. 資料外洩 (n.) _____
9. 加密 (n.) _____
10. 匿名化 (n.) _____
11. 同意 (n.) _____
12. 法規 (n.) _____
13. 一般資料保護規範 (n.) _____
14. 網路追蹤碼 (n.) _____
15. 後設資料 (n.) _____

B. Grammar - Choose the correct answer

1. Recent _____ in the field have raised important questions about ethics.
(A) developments (B) deductions
(C) departures (D) deletions
2. The study found that public understanding _____ impacts policy outcomes.
(A) insignificantly (B) rarely
(C) significantly (D) negatively
3. Having studied the topic for years, she _____ an expert in the field.
(A) becomes (B) became
(C) becoming (D) has become

4. The evidence is compelling; _____, more research is needed.
(A) therefore (B) nevertheless
(C) consequently (D) furthermore
5. What researchers discovered _____ changed our understanding entirely.
(A) have (B) has
(C) having (D) had
6. Companies must ____ with data protection regulations.
(A) comply (B) compete
(C) compose (D) compress
7. The ____ of personal data without consent is illegal under GDPR.
(A) processing (B) producing
(C) promoting (D) projecting
8. Encryption ____ sensitive information from unauthorized access.
(A) protects (B) promotes
(C) produces (D) prohibits
9. The algorithm can ____ patterns in massive datasets within seconds.
(A) identify (B) idealize
(C) immunize (D) improvise
10. Users must give explicit ____ before their data can be collected.
(A) consent (B) content
(C) context (D) contest

C. Listening - Go to learn.chparenting.com to listen

1. 專家呼籲什麼？
(A) Experts want to stop all progress.
(B) Experts call for balancing innovation with public welfare.
(C) There is no debate about regulation.
2. 研究發現什麼？
(A) Public understanding does not matter.
(B) Informed citizens support better policies.
(C) The study was published in a newspaper.
3. 國際合作方面的現狀如何？
(A) International cooperation has decreased.
(B) Cooperation has grown but inequality remains.
(C) All nations participate equally.
4. 科技與此領域的交集帶來什麼？
(A) Technology only creates problems.
(B) Technology creates both opportunities and challenges.
(C) Misinformation is not a concern.

5. 專家預測什麼？

- (A) This field will become less important.
- (B) This field will increasingly influence public policy.
- (C) Only one discipline needs to be involved.

D. Reading - Go to learn.chparenting.com to read the passage

1. What has driven the transformation of this field?

- (A) Only technology
- (B) Technology, social values, and new research
- (C) Government mandates alone
- (D) Historical tradition

2. What challenge has the democratization of knowledge created?

- (A) Too few people are interested.
- (B) Misinformation and quality control issues.
- (C) Everyone became an expert.
- (D) Research funding decreased.

3. Why are interdisciplinary approaches important?

- (A) They are cheaper.
- (B) Problems rarely fit into a single discipline.
- (C) They are required by law.
- (D) They are simpler.

4. What ethical questions does the passage raise?

- (A) Whether to stop all research
- (B) How to balance progress with precaution and equity
- (C) Whether ethics matter
- (D) How to avoid all risk

5. What will shape the future of this field?

- (A) Random chance
- (B) Investment in education and evidence-based policy
- (C) Ignoring public opinion
- (D) Reducing all research funding

