



Practice Worksheet on Python Programming, AI, App Development, E-commerce

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Subject: Computer Science

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Long Answer Questions

1. Discuss the potential impact of Artificial Intelligence (AI) on various sectors in the future.
2. Explain the concept of e-commerce and its significance in today's digital world.
3. Describe Python control structures and provide examples of how they are used in programming.
4. Compare and contrast Python with other programming languages for app development.
5. Discuss different app development approaches and the importance of user experience.
6. Describe the cybersecurity concerns in e-commerce and strategies to mitigate them.

7. Explain the steps in developing a mobile app, from ideation to post-launch updates.

8. Discuss the versatility of Python programming in diverse fields.

Multiple Choice Questions

1. What is a 'for' loop in Python?

- a) A loop that repeats a block of code a specific number of times.
- b) A loop that repeats a block of code until a condition is met.
- c) A conditional statement that executes a block of code if a condition is true.
- d) A conditional statement that executes a block of code if a condition is false.

2. Which field(s) heavily utilize Python?

- a) Machine Learning
- b) Data Analytics
- c) Both A and B
- d) None of the above

3. Is Python a popular language for app development?

- a) True
- b) False

4. What's one advantage of Python?

- a) It's not secure
- b) It's fast and efficient
- c) It's difficult to learn
- d) It lacks libraries

5. Which language is known for its readability?

- a) Java
- b) Python
- c) C++
- d) JavaScript

6. Why is user-centric design important?

- a) To ensure users' security
- b) To increase the app's size
- c) To enhance user experience
- d) To improve developer productivity

7. What is a good example of e-commerce?

- a) An online marketplace
- b) A physical store
- c) A social media platform
- d) A search engine

8. How will AI impact automation?

- a) Decreased automation
- b) Increased automation
- c) No impact on automation
- d) Reduced reliance on technology

Answer Key

Long Answer Questions - Expected Responses

1. Discuss the potential impact of Artificial Intelligence (AI) on various sectors in the future.

Expected Answer: Explain how AI could transform various sectors like healthcare, education, and transportation.

2. Explain the concept of e-commerce and its significance in today's digital world.

Expected Answer: Describe the role of e-commerce in the modern economy and the benefits of online shopping for both consumers and businesses.

3. Describe Python control structures and provide examples of how they are used in programming.

Expected Answer: Explain how Python control structures like loops and conditional statements work and how they are used to control the flow of a program.

4. Compare and contrast Python with other programming languages for app development.

Expected Answer: Discuss the advantages and disadvantages of using Python for app development compared to other programming languages.

5. Discuss different app development approaches and the importance of user experience.

Expected Answer: Describe various app development methodologies and the importance of user-centric design.

6. Describe the cybersecurity concerns in e-commerce and strategies to mitigate them.

Expected Answer: Explain the security challenges faced by e-commerce businesses and strategies to protect customer data.

7. Explain the steps in developing a mobile app, from ideation to post-launch updates.

Expected Answer: Explain the steps involved in developing a mobile application, from conceptualization to launch and post-launch maintenance.

8. Discuss the versatility of Python programming in diverse fields.

Expected Answer: Explain the various applications of Python programming in areas like data analysis, machine learning, and web development.

Multiple Choice Questions - Correct Answers

1. What is a 'for' loop in Python?

Correct Answer: A loop that repeats a block of code a specific number of times.

2. Which field(s) heavily utilize Python?

Correct Answer: Both A and B

3. Is Python a popular language for app development?

Correct Answer: True

4. What's one advantage of Python?

Correct Answer: It's fast and efficient

5. Which language is known for its readability?

Correct Answer: Python

6. Why is user-centric design important?

Correct Answer: To enhance user experience

7. What is a good example of e-commerce?

Correct Answer: An online marketplace

8. How will AI impact automation?

Correct Answer: Increased automation