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CLASS 11

Computer Science

Sample Paper 3 - Questions

37 questions | 70 marks | 2026-27

Time: 3 hours. Answer all questions and subparts unless a choice is stated. Marks are shown on the right. Write answers on separate sheets. Independently prepared practice paper.

Section A - Objective questions

1. Which statement correctly describes Tuple? **1**

(A) Online activity leaves a trail of data.

(B) An ordered immutable sequence groups values.

(C) Keys map to associated values in a Python collection.

(D) The result is true only when both input conditions are true.

2. Identify the term described by this statement: A name refers to an object or value in a program. **1**

(A) Modulo

(B) Dictionary

(C) Slicing

(D) Variable

3. Which statement correctly describes Hexadecimal number? **1**

(A) A sequence can be selected using start, stop and step.

(B) System software manages hardware resources and supports application execution.

(C) The // operator returns a floor-division result.

(D) Base sixteen uses digits zero through nine and letters A through F.

4. Which statement correctly describes Binary number? **1**

(A) The contents of an object can be changed after creation.

(B) An object's contents cannot be changed in place.

(C) Base two uses place values that are powers of two.

(D) An ordered immutable sequence groups values.

5. Identify the term described by this statement: Online activity leaves a trail of data. **1**

(A) Tuple

(B) Modulo

(C) Digital footprint

(D) Logic AND

6. Identify the term described by this statement: The contents of an object can be changed after creation. **1**

(A) Mutable object

(B) Conditional

(C) Modulo

(D) Variable

7. Identify the term described by this statement: An object's contents cannot be changed in place. **1**

(A) Modulo

(B) Immutable object

(C) Tuple

(D) Operating system

8. Which statement correctly describes Dictionary? **1**

(A) Keys map to associated values in a Python collection.

(B) System software manages hardware resources and supports application execution.

(C) The result is true only when both input conditions are true.

(D) A name refers to an object or value in a program.

9. Identify the term described by this statement: The // operator returns a floor-division result. **1**

(A) Digital footprint
(B) Binary number
(C) Integer division
(D) Hexadecimal number

10. Identify the term described by this statement: The result is true only when both input conditions are true. **1**

(A) Tuple
(B) Iteration
(C) Dictionary
(D) Logic AND

11. Identify the term described by this statement: Deceptive messages or sites attempt to obtain sensitive information. **1**

(A) Variable
(B) Phishing
(C) Slicing
(D) Digital footprint

12. Which statement correctly describes Modulo? **1**

(A) The % operator returns the remainder under Python's arithmetic rules.
(B) The result is true only when both input conditions are true.
(C) System software manages hardware resources and supports application execution.
(D) A loop repeats a block under specified control.

13. Which statement correctly describes Conditional? **1**

(A) The contents of an object can be changed after creation.
(B) Keys map to associated values in a Python collection.
(C) A Boolean condition selects a branch of execution.
(D) The % operator returns the remainder under Python's arithmetic rules.

14. Which statement correctly describes Iteration? 1

(A) Base two uses place values that are powers of two.

(B) The // operator returns a floor-division result.

(C) Online activity leaves a trail of data.

(D) A loop repeats a block under specified control.

15. Identify the term described by this statement: System software manages hardware resources and supports application execution. 1

(A) Operating system

(B) Integer division

(C) Logic AND

(D) Hexadecimal number

16. Identify the term described by this statement: A sequence can be selected using start, stop and step. 1

(A) Slicing

(B) Tuple

(C) Conditional

(D) Digital footprint

17. Identify the term described by this statement: Base sixteen uses digits zero through nine and letters A through F. 1

(A) Conditional

(B) Modulo

(C) Hexadecimal number

(D) Logic AND

18. Which statement correctly describes Digital footprint? 1

(A) The // operator returns a floor-division result.

(B) A Boolean condition selects a branch of execution.

(C) An ordered immutable sequence groups values.

(D) Online activity leaves a trail of data.

19. Which statement correctly describes Integer division? 1

(A) An ordered immutable sequence groups values.

(B) A loop repeats a block under specified control.

(C) A name refers to an object or value in a program.

(D) The // operator returns a floor-division result.

20. Which statement correctly describes Mutable object? 1

(A) An ordered immutable sequence groups values.

(B) The contents of an object can be changed after creation.

(C) A loop repeats a block under specified control.

(D) Base two uses place values that are powers of two.

21. Which statement correctly describes Immutable object? 1

(A) Base sixteen uses digits zero through nine and letters A through F.

(B) Base two uses place values that are powers of two.

(C) An object's contents cannot be changed in place.

(D) Online activity leaves a trail of data.

Section B - Short responses

22. Compare Tuple and Mutable object. Give the meaning and an appropriate application of each. 2

23. Determine the output produced by the following Python code: 2

```
a = [20, 22, 24, 26]
print(sum(a[1:3]))
```

24. Explain how the following example illustrates Logic AND: Two required conditions must hold simultaneously. 2

25. Determine the value printed by this code: 2

```
s = 0
for n in range(1, 26):
  s += n
print(s)
```

26. Compare Iteration and Mutable object. Give the meaning and an appropriate application of each. 2

27. Determine the value printed by this code: **2**

```
s = 0
for n in range(1, 25):
  s += n
print(s)
```

28. Compare Binary number and Hexadecimal number. Give the meaning and an appropriate application of each. **2**

Section C - Short responses

29. Determine the output produced by the following Python code: **3**

```
a = [18, 20, 22, 24]
print(sum(a[1:3]))
```

30. Explain how the following example illustrates Phishing: A forged login link requests a user's password. **3**

31. Determine the output produced by the following Python code: **3**

```
a = [21, 23, 25, 27]
print(sum(a[1:3]))
```

Section D - Case and application questions

32. Consider this situation: An assignment binds a name to an integer object.

(a) Name the concept demonstrated in the case. **1**

(b) Explain the connection between the situation and that concept. **1**

(c) Distinguish that concept from Immutable object, giving an appropriate feature of each. **2**

33. Consider this situation: A learner's identifier maps to a score.

(a) Name the concept demonstrated in the case. 1

(b) Explain the connection between the situation and that concept. 1

(c) Distinguish that concept from Mutable object, giving an appropriate feature of each. 2

34. Consider this situation: The stop index in s[1:4] is excluded.

(a) Name the concept demonstrated in the case. 1

(b) Explain the connection between the situation and that concept. 1

(c) Distinguish that concept from Immutable object, giving an appropriate feature of each. 2

35. Consider this situation: A system coordinates processes, memory and files.

(a) Name the concept demonstrated in the case. 1

(b) Explain the connection between the situation and that concept. 1

(c) Distinguish that concept from Phishing, giving an appropriate feature of each. 2

Section E - Extended responses

36. (a) Explain Modulo and analyse this application: Testing n % 2 == 0 checks evenness for an integer. 5
(b) Explain Integer division and show how this second application fits it: Positive integer operands can produce an integer quotient with the fractional part removed.

37. (a) Explain Conditional and analyse this application: An if statement chooses a response based on a score. 5
(b) Explain Logic AND and show how this second application fits it: Two required conditions must hold simultaneously.

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