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CLASS 11

Computer Science

Sample Paper 4 - 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 Iteration? **1**

(A) A loop repeats a block under specified control.
(B) Base two uses place values that are powers of two.
(C) The // operator returns a floor-division result.
(D) Base sixteen uses digits zero through nine and letters A through F.

2. Which statement correctly describes Logic AND? **1**

(A) Base two uses place values that are powers of two.
(B) The result is true only when both input conditions are true.
(C) Deceptive messages or sites attempt to obtain sensitive information.
(D) A name refers to an object or value in a program.

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

(A) The % operator returns the remainder under Python's arithmetic rules.
(B) The contents of an object can be changed after creation.
(C) Base two uses place values that are powers of two.
(D) A Boolean condition selects a branch of execution.

4. Which concept is illustrated in this example? Posts and interactions contribute to a person's online record. **1**

(A) Conditional
(B) Integer division
(C) Logic AND
(D) Digital footprint

5. Which concept is illustrated in this example? A Python string does not allow item assignment. **1**

(A) Conditional
(B) Digital footprint
(C) Immutable object
(D) Logic AND

6. Which concept is illustrated in this example? A Python list can have an item appended. **1**

(A) Logic AND
(B) Mutable object
(C) Modulo
(D) Variable

7. Which concept is illustrated in this example? Positive integer operands can produce an integer quotient with the fractional part removed. **1**

(A) Mutable object
(B) Dictionary
(C) Phishing
(D) Integer division

8. Which concept is illustrated in this example? The digit F represents fifteen. **1**

(A) Iteration
(B) Digital footprint
(C) Mutable object
(D) Hexadecimal number

9. Which statement correctly describes Phishing? **1**

(A) Keys map to associated values in a Python collection.
(B) An ordered immutable sequence groups values.
(C) The contents of an object can be changed after creation.
(D) Deceptive messages or sites attempt to obtain sensitive information.

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

(A) A Boolean condition selects a branch of execution.
(B) The % operator returns the remainder under Python's arithmetic rules.
(C) A sequence can be selected using start, stop and step.
(D) The contents of an object can be changed after creation.

11. Which statement correctly describes Slicing? **1**

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

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

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

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

12. Which concept is illustrated in this example? A system coordinates processes, memory and files. **1**

(A) Iteration

(B) Operating system

(C) Logic AND

(D) Digital footprint

13. Which concept is illustrated in this example? A learner's identifier maps to a score. **1**

(A) Dictionary

(B) Binary number

(C) Tuple

(D) Logic AND

14. Which concept is illustrated in this example? An assignment binds a name to an integer object. **1**

(A) Variable

(B) Operating system

(C) Hexadecimal number

(D) Phishing

15. Which concept is illustrated in this example? The digits 101 represent five in decimal. **1**

(A) Dictionary

(B) Logic AND

(C) Binary number

(D) Tuple

16. Which concept is illustrated in this example? A coordinate pair can be stored as a tuple. **1**

(A) Phishing
(B) Tuple
(C) Digital footprint
(D) Logic AND

17. Which statement correctly describes Immutable object? **1**

(A) Base sixteen uses digits zero through nine and letters A through F.
(B) System software manages hardware resources and supports application execution.
(C) The % operator returns the remainder under Python's arithmetic rules.
(D) An object's contents cannot be changed in place.

18. Which concept is illustrated in this example? A for loop processes each item in a list. **1**

(A) Slicing
(B) Dictionary
(C) Hexadecimal number
(D) Iteration

19. Which concept is illustrated in this example? Testing n % 2 == 0 checks evenness for an integer. **1**

(A) Modulo
(B) Logic AND
(C) Tuple
(D) Mutable object

20. Which concept is illustrated in this example? Two required conditions must hold simultaneously. **1**

(A) Logic AND
(B) Phishing
(C) Modulo
(D) Conditional

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

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

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

(C) Online activity leaves a trail of data.

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

Section B - Short responses

22. State the meaning of Tuple. Identify a relevant feature in this situation: A coordinate pair can be stored as a tuple. **2**

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

```
s = 0
for n in range(1, 35):
  s += n
print(s)
```

24. State the meaning of Digital footprint. Identify a relevant feature in this situation: Posts and interactions contribute to a person's online record. **2**

25. Determine the output produced by the following Python code: **2**

```
a = [28, 30, 32, 34]
print(sum(a[1:3]))
```

26. State the meaning of Integer division. Identify a relevant feature in this situation: Positive integer operands can produce an integer quotient with the fractional part removed. **2**

27. Determine the output produced by the following Python code: **2**

```
a = [33, 35, 37, 39]
print(sum(a[1:3]))
```

28. State the meaning of Variable. Identify a relevant feature in this situation: An assignment binds a name to an integer object. **2**

Section C - Short responses

29. Determine the value printed by this code: **3**

```
s = 0
for n in range(1, 37):
  s += n
print(s)
```

30. State the meaning of Dictionary. Identify a relevant feature in this situation: A learner's identifier maps to a score. **3**

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

```
a = [26, 28, 30, 32]
print(sum(a[1:3]))
```

Section D - Case and application questions

32. Consider this situation: A Python list can have an item appended.

(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 Tuple, giving an appropriate feature of each. **2**

33. Consider this situation: An if statement chooses a response based on 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 Logic AND, giving an appropriate feature of each. **2**

34. Consider this situation: The digits 101 represent five in decimal.

(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 Hexadecimal number, giving an appropriate feature of each. 2

35. 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

Section E - Extended responses

36. (a) Explain Phishing and analyse this application: A forged login link requests a user's password. 5
(b) Explain Operating system and show how this second application fits it: A system coordinates processes, memory and files.

37. (a) Explain Operating system and analyse this application: A system coordinates processes, memory and files. 5
(b) Explain Phishing and show how this second application fits it: A forged login link requests a user's password.

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