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CLASS 11

Computer Science

Sample Paper 1 - 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. Determine the output produced by the following Python code: **1**

```
a = [10, 12, 14, 16]
print(sum(a[1:3]))
```

(A) 28 (B) 26 (C) 25 (D) 27

2. Which concept best explains the following situation? Posts and interactions contribute to a person's online record. **1**

(A) Slicing (B) Binary number (C) Variable (D) Digital footprint

3. Which concept best explains the following situation? A forged login link requests a user's password. **1**

(A) Binary number (B) Slicing (C) Phishing (D) Variable

4. Determine the value printed by this code: **1**

```
s = 0
for n in range(1, 14):
  s += n
print(s)
```

(A) 90 (B) 91 (C) 92 (D) 93

5. Which concept best explains the following situation? A system coordinates processes, memory and files. **1**

(A) Slicing (B) Binary number (C) Operating system (D) Variable

6. Which concept best explains the following situation? Two required conditions must hold simultaneously. **1**

(A) Binary number (B) Slicing (C) Variable (D) Logic AND

7. Determine the output produced by the following Python code: **1**

```
a = [11, 13, 15, 17]
print(sum(a[1:3]))
```

(A) 29 (B) 30 (C) 27 (D) 28

8. Which concept best explains the following situation? The digit F represents fifteen. **1**

(A) Slicing (B) Variable (C) Binary number (D) Hexadecimal number

9. Which concept best explains the following situation? The digits 101 represent five in decimal. **1**

(A) Variable (B) Slicing (C) Binary number (D) Hexadecimal number

10. Determine the value printed by this code: **1**

```
s = 0
for n in range(1, 15):
  s += n
print(s)
```

(A) 106 (B) 104 (C) 105 (D) 107

11. Which concept best explains the following situation? A coordinate pair can be stored as a tuple. **1**

(A) Slicing (B) Hexadecimal number (C) Variable (D) Tuple

12. Which concept best explains the following situation? A learner's identifier maps to a score. **1**

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

13. Determine the output produced by the following Python code: **1**

```
a = [12, 14, 16, 18]
print(sum(a[1:3]))
```

(A) 29 (B) 30 (C) 32 (D) 31

14. Which concept best explains the following situation? A for loop processes each item in a list. 1

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

15. Which concept best explains the following situation? An if statement chooses a response based on a score. 1

(A) Slicing (B) Variable (C) Conditional (D) Hexadecimal number

16. Determine the value printed by this code: 1

```
s = 0
for n in range(1, 16):
  s += n
print(s)
```

(A) 122 (B) 119 (C) 121 (D) 120

17. Which concept best explains the following situation? The stop index in s[1:4] is excluded. 1

(A) Variable (B) Conditional (C) Slicing (D) Hexadecimal number

18. Which concept best explains the following situation? Testing n % 2 == 0 checks evenness for an integer. 1

(A) Modulo (B) Variable (C) Conditional (D) Hexadecimal number

19. Determine the output produced by the following Python code: 1

```
a = [13, 15, 17, 19]
print(sum(a[1:3]))
```

(A) 33 (B) 34 (C) 31 (D) 32

20. Which concept best explains the following situation? Positive integer operands can produce an integer quotient with the fractional part removed. 1

(A) Conditional (B) Variable (C) Hexadecimal number (D) Integer division

21. Which concept best explains the following situation? A Python string does not allow item assignment. 1

(A) Immutable object (B) Hexadecimal number (C) Conditional (D) Variable

Section B - Short responses

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

```
s = 0
for n in range(1, 17):
  s += n
print(s)
```

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

```
a = [14, 16, 18, 20]
print(sum(a[1:3]))
```

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

```
s = 0
for n in range(1, 18):
  s += n
print(s)
```

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

```
a = [15, 17, 19, 21]
print(sum(a[1:3]))
```

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

```
s = 0
for n in range(1, 19):
  s += n
print(s)
```

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

```
a = [16, 18, 20, 22]
print(sum(a[1:3]))
```

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

```
s = 0
for n in range(1, 20):
  s += n
print(s)
```

Section C - Short responses

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

```
a = [17, 19, 21, 23]
print(sum(a[1:3]))
```

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

```
s = 0
for n in range(1, 21):
  s += n
print(s)
```

31. Identify and explain the concept illustrated here: Posts and interactions contribute to a person's online record. Give a further suitable illustration. **3**

Section D - Case and application questions

32. Consider the application below: Posts and interactions contribute to a person's online record.

(a) Name the relevant concept. **1**

(b) Explain why it applies. **1**

(c) Explain Variable with a suitable example. **2**

33. Consider the application below: A forged login link requests a user's password.

(a) Name the relevant concept. **1**

(b) Explain why it applies. **1**

(c) Explain Digital footprint with a suitable example. **2**

34. Consider the application below: A system coordinates processes, memory and files.

(a) Name the relevant concept. **1**

(b) Explain why it applies. **1**

(c) Explain Phishing with a suitable example. **2**

35. Consider the application below: Two required conditions must hold simultaneously.

(a) Name the relevant concept. **1**

(b) Explain why it applies. **1**

(c) Explain Operating system with a suitable example. **2**

Section E - Extended responses

36. Write a Python function even_total(values) returning the sum of even integers in a supplied list. Demonstrate its result for [3,4,6,9]. **5**

37. Write Python code counting the frequency of each word in ["blue","green","blue","red","green","blue"] using a dictionary. State the final dictionary. **5**

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