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CLASS 11

Informatics Practices

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? Connected sensors or machine-learning systems support a practical task. **1**

(A) Slicing (B) SELECT (C) Variable (D) Emerging technology

3. Which concept best explains the following situation? A numeric score and a name use suitable different types. **1**

(A) SELECT (B) Slicing (C) SQL data type (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 query lists each city name once. **1**

(A) Slicing (B) SELECT (C) DISTINCT (D) Variable

6. Which concept best explains the following situation? Scores appear from highest to lowest. **1**
(A) SELECT (B) Slicing (C) Variable (D) ORDER BY

7. Table T has one numeric column V with rows 10, 12, 14. What value does SELECT SUM(V) FROM T; return? **1**
(A) 37 (B) 38 (C) 35 (D) 36

8. Which concept best explains the following situation? A query selects records with marks at least eighty. **1**
(A) Slicing (B) Variable (C) SELECT (D) WHERE

9. Which concept best explains the following situation? A statement displays names and marks. **1**
(A) Variable (B) Slicing (C) SELECT (D) WHERE

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

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

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

11. Which concept best explains the following situation? RollNo can identify each student's record. **1**
(A) Slicing (B) WHERE (C) Variable (D) Primary key

12. Which concept best explains the following situation? A Student table stores one record per learner. **1**
(A) Relation (B) WHERE (C) Variable (D) Slicing

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

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

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

14. Which concept best explains the following situation? A for loop processes each item in a list. **1**
(A) Variable (B) Iteration (C) WHERE (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) WHERE

16. Table T has one numeric column V with rows 11, 13, 15. What value does SELECT SUM(V) FROM T; return? 1

(A) 41 (B) 38 (C) 40 (D) 39

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) WHERE

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) WHERE

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

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

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

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) WHERE (D) Integer division

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

(A) Immutable object (B) WHERE (C) Conditional (D) Variable

Section B - Short responses

22. Determine the value printed by this code: 2

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

23. Table T has one numeric column V with rows 12, 14, 16. What value does SELECT SUM(V) FROM T; return? **2**

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

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

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

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

26. Table T has one numeric column V with rows 13, 15, 17. What value does SELECT SUM(V) FROM T; return? **2**

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

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

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

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

Section C - Short responses

29. Table T has one numeric column V with rows 14, 16, 18. What value does SELECT SUM(V) FROM T; return? **3**

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

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

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

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

32. Table T has one numeric column V with rows 15, 17, 19. What value does SELECT SUM(V) FROM T; return? **3**

Section D - Case and application questions

33. Consider the application below: Connected sensors or machine-learning systems support a practical task.

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

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

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

34. Consider the application below: A numeric score and a name use suitable different types.

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

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

(c) Explain Emerging technology with a suitable example. **2**

Section E - Extended responses

35. 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**

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

37. Table BOOK has columns Title, Price and Stock. Write SQL to display titles and prices for books costing below300 with positive stock, in increasing price order. **5**

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