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CLASS 12

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? A student credits sources and uses appropriately licensed material. **1**

(A) Missing value (B) SQL aggregate (C) Series (D) Intellectual property

3. Which concept best explains the following situation? A project avoids publishing personal contact details without permission. **1**

(A) SQL aggregate (B) Missing value (C) Privacy (D) Series

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 school shares resources among connected computers. **1**

(A) Missing value (B) SQL aggregate (C) Network (D) Series

6. Which concept best explains the following situation? A query extracts the year from a date. **1**
(A) SQL aggregate (B) Missing value (C) Series (D) SQL date function

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? UPPER changes letter case without changing the stored original unless used in an update. **1**
(A) Missing value (B) Series (C) SQL aggregate (D) SQL string function

9. Which concept best explains the following situation? COUNT, SUM and AVG answer different summary questions. **1**
(A) Series (B) Missing value (C) SQL aggregate (D) SQL string function

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? Only cities whose total sales exceed a threshold are shown. **1**
(A) Missing value (B) SQL string function (C) Series (D) HAVING

12. Which concept best explains the following situation? A query summarises sales for each city. **1**
(A) GROUP BY (B) SQL string function (C) Series (D) Missing value

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? Adjacent bins show how scores are distributed. **1**
(A) Series (B) Histogram (C) SQL string function (D) Missing value

15. Which concept best explains the following situation? A bar chart compares quantities across categories. 1
(A) Missing value (B) Series (C) Data visualisation (D) SQL string function

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? A suitable missing marker differs from a genuine zero score. 1
(A) Series (B) Data visualisation (C) Missing value (D) SQL string function

18. Which concept best explains the following situation? A bonus column is computed by adding five to all scores. 1
(A) Column operation (B) Series (C) Data visualisation (D) SQL string function

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? A program selects a named row label and a named column. 1
(A) Data visualisation (B) Series (C) SQL string function (D) loc selection

21. Which concept best explains the following situation? df[df['Marks'] >= 80] keeps rows meeting the condition. 1
(A) Boolean filtering (B) SQL string function (C) Data visualisation (D) Series

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: A student credits sources and uses appropriately licensed material.

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

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

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

34. Consider the application below: A project avoids publishing personal contact details without permission.

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

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

(c) Explain Intellectual property with a suitable example. **2**

Section E - Extended responses

35. DataFrame df has columns Name, Club and Score. Write Pandas statements to display its first three rows and then rows whose Score exceeds80, showing only Name and Score. **5**

36. Table RESULT has columns Name, Club and Score. Write SQL to show each Club with its average Score, keeping only clubs whose average exceeds75. **5**

37. Write Python statements to read results.csv into a Pandas DataFrame and create a bar plot of its Name and Score columns. Include a title and axis labels. **5**

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