First Hope

GET SOLUTIONS

Click here to visit our website

CLASS 11 COMPUTER SCIENCE - PRACTICE QUESTIONS

For solutions, download the FirstHope app now.

Scan or click here

Click here to get solutions >

Available on Google Play

JOIN THE FIRSTHOPE COMMUNITY

Join our Telegram channel

Click here to join Telegram >

Scan or click here

@FirstHope_CBSE_Notes

Instagram

@firsthope.school

Click here to follow >

YouTube channel

@firsthope.school

Click here to watch >

FirstHope website

firsthope.co.in

Click here to visit our website >

CBSE / Class 11 / Computer Science

For solutions, download the FirstHope app now.

CLASS 11

Computer Science

Sample Paper 5 - 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) Deceptive messages or sites attempt to obtain sensitive information.

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

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

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

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

(A) Digital footprint

(B) Operating system

(C) Integer division

(D) Hexadecimal number

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

(A) Conditional

(B) Tuple

(C) Operating system

(D) Phishing

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

(A) Tuple
(B) Immutable object
(C) Slicing
(D) Binary number

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

(A) Phishing
(B) Dictionary
(C) Iteration
(D) Immutable object

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

(A) Modulo
(B) Binary number
(C) Tuple
(D) Conditional

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

(A) Operating system
(B) Logic AND
(C) Immutable object
(D) Mutable object

8. Which concept is illustrated in this example? A forged login link requests a user's password. **1**

(A) Mutable object
(B) Binary number
(C) Slicing
(D) Phishing

9. Which statement correctly describes Modulo? 1

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

(B) Deceptive messages or sites attempt to obtain sensitive information.

(C) The % operator returns the remainder under Python's arithmetic rules.

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

10. Which statement correctly describes Hexadecimal number? 1

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

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

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

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

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

(A) Integer division

(B) Tuple

(C) Digital footprint

(D) Phishing

12. Which statement correctly describes Slicing? 1

(A) Online activity leaves a trail of data.

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

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

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

13. Which statement correctly describes Mutable object? 1

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

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

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

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

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

(A) Operating system

(B) Variable

(C) Mutable object

(D) Slicing

15. Which statement correctly describes Conditional? 1

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

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

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

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

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

(A) Integer division

(B) Dictionary

(C) Digital footprint

(D) Iteration

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

(A) Iteration

(B) Logic AND

(C) Modulo

(D) Mutable object

18. Which statement correctly describes Digital footprint? 1

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

(B) Online activity leaves a trail of data.

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

(D) An ordered immutable sequence groups values.

19. Which statement correctly describes Operating system? 1

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

(B) The % operator returns the remainder under Python's arithmetic rules.

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

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

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

(A) The % operator returns the remainder under Python's arithmetic rules.

(B) An ordered immutable sequence groups values.

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

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

21. Which concept is illustrated in this example? The stop index in s[1:4] is excluded. **1**

(A) Operating system

(B) Binary number

(C) Slicing

(D) Phishing

Section B - Short responses

22. Compare Phishing and Operating system. Give the meaning and an appropriate application of each. **2**

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

```
s = 0
for n in range(1, 40):
  s += n
print(s)
```

24. Use this situation to explain Mutable object, connecting the definition to the details: A Python list can have an item appended. **2**

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

```
a = [40, 42, 44, 46]
print(sum(a[1:3]))
```

26. Compare Immutable object and Slicing. 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, 39):
  s += n
print(s)
```

28. Use this situation to explain Tuple, connecting the definition to the details: A coordinate pair can be stored as a tuple. **2**

Section C - Short responses

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

```
a = [36, 38, 40, 42]
print(sum(a[1:3]))
```

30. Compare Binary number and Hexadecimal number. Give the meaning and an appropriate application of each. **3**

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

```
s = 0
for n in range(1, 42):
  s += n
print(s)
```

Section D - Case and application questions

32. 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**

33. Consider this situation: Positive integer operands can produce an integer quotient with the fractional part removed.

(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 Digital footprint, giving an appropriate feature of each. 2

34. Consider this situation: Testing n % 2 == 0 checks evenness for an integer.

(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 Integer division, giving an appropriate feature of each. 2

35. 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

Section E - Extended responses

36. (a) Explain Dictionary and analyse this application: A learner's identifier maps to a score. 5
(b) Explain Mutable object and show how this second application fits it: A Python list can have an item appended.

37. (a) Explain Hexadecimal number and analyse this application: The digit F represents fifteen. 5
(b) Explain Binary number and show how this second application fits it: The digits 101 represent five in decimal.

First Hope

GET SOLUTIONS

Click here to visit our website

CLASS 11 COMPUTER SCIENCE - PRACTICE QUESTIONS

For solutions, download the FirstHope app now.

Scan or click here

Click here to get solutions >

Available on Google Play

JOIN THE FIRSTHOPE COMMUNITY

Join our Telegram channel

Click here to join Telegram >

Scan or click here

@FirstHope_CBSE_Notes

Instagram

@firsthope.school

Click here to follow >

YouTube channel

@firsthope.school

Click here to watch >

FirstHope website

firsthope.co.in

Click here to visit our website >

CBSE / Class 11 / Computer Science

For solutions, download the FirstHope app now.