



Delhi Public School, Howrah

PERIODIC TEST I (2025-2026)

CLASS – XI

Care must be taken not to write anything on the question paper. All the questions must be attempted in the correct sequence.

SUBJECT: INFORMATICS PRACTICES (065)

Time Allowed:- 3 Hours

F.M.-70

General Instructions:

- This question paper contains 37 questions.
- All questions are compulsory. However, internal choices have been provided in some questions. Attempt only one of the choices in such questions.
- The paper is divided into 5 Sections- A, B, C, D and E.
- Section A consists of 21 questions (1 to 21). Each question carries 1 Mark.
- Section B consists of 7 questions (22 to 28). Each question carries 2 Marks.
- Section C consists of 4 questions (29 to 32). Each question carries 3 Marks.
- Section D consists of 2 questions (33 to 34). Each question carries 4 Marks.
- Section E consists of 3 questions (35 to 37). Each question carries 5 Marks.
- All programming questions are to be answered using Python Language only.
- In case of MCQ, text of the correct answer should also be written.

SECTION – A

1.	Which output device is used for producing highly accurate, very large drawings and posters? A) Laser Printer B) Dot Matrix Printer C) Inkjet Printer D) Plotter	(1)
2.	What is the value of the following python statement: print(6+5*4-7/2) A) 22 B) 22.5 C) 21.5 D) 21	(1)
3.	Which of the following statement is not correct about python keywords? A) Keywords defined by user B) Keywords cannot be used as an identifier C) Keywords convey a special meaning to python interpreter D) Keywords are case-sensitive	(1)
4.	What will be the output for the following block of code? i = 1 while True: if i%3 == 0: break print(i) i += 1 A) 1 2 3 B) error C) 1 2 D) 1	(1)
5.	The process of fetching or retrieving deleted and corrupted data from secondary storage is known as _____ A) Data Recovery B) Data Backup C) Restoring Data D) Data Deletion	(1)
6.	Which of the following is not a keyword in python? A) eval B) def C) del D) pass	(1)
7.	Which of the following acts as an interface between the device and operating systems? A) Language Processor B) Device Driver C) Antivirus Software D) Operating System	(1)
8.	Which of the following is a python built-in editor popularly used to write scripts? A) Jupyter Notebook B) PyCharm IDE C) Spyder IDE D) CPython IDLE	(1)

9.	What will be the output for the following block of code? var = 10 print(type(var)) var = "Hello" print(type(var)) A) int and int B) int and str C) str and str D) str and int	(1)
10.	Which of the following statement is used to iterate over a range sequence? A) if B) if-else C) if-elif-else D) for	(1)
11.	Ansh is working in python interactive mode. He noticed this symbol - >>> but forgot what it is called. Select an appropriate option for him out of these. A) Python Shell B) Python Script C) Python prompt D) Python Interpreter	(1)
12.	To determine the data type of a variable _____ function is used. A) dtype() B) type() C) cast() D) ndim()	(1)
13.	Using Python Interpreter one can execute python program in _____. A) Interactive mode B) Script mode C) Both D) Without any mode	(1)
14.	Which of the following is NOT true about Identifier (variable) naming conventions in python? i) Identifier cannot start with a digit. ii) It can be of any length. iii) It should not be a keyword or a reserved word iv) We can use any special symbols in identifiers. A) i only B) ii and iii only C) ii and iv only D) iv only	(1)
15.	Python was created by _____. A) Denis Ritchie B) Richard Stallman C) Guido Van Rossum D) Larry Page	(1)
16.	Python program files are stored with the extension of _____. A) .pt B) .py C) .pyt D) .pty	(1)
17.	In Python, a single line comment starts with _____. A) // B) /* C) # D) ##	(1)
18.	Python program is called _____. A) Module B) Package C) Program D) Namespace	(1)
19.	Which of the following data type is not supported by python? A) float B) complex C) list D) date	(1)
Q20 and Q21 are ASSERTION (A) and REASONING (R) based questions. Mark the correct choice as- (A) A is false but R is true. (B) Both A and R are true but R is not the correct explanation for A. (C) A is true but R is false. (D) Both A and R are true and R is the correct explanation for A.		
20.	ASSERTION (A): Variables in Python must be declared with a specific data type before they can be used. REASON (R): Python is a dynamically typed language, which means variables do not need explicit declaration before use.	(1)
21.	ASSERTION (A): Indentation is mandatory in Python to define the block of code. REASON (R): Python uses curly braces {} to indicate the start and end of a block of code.	(1)
SECTION – B		
22.	State two differences between the "==" and "=" operators.	(2)
23.	Write a Python code snippet that demonstrates the use of the if-elif-else statement.	(2)
24.	(A) Shiv has written following code into python but he is not able to get the correct output. a=int("Enter first number") b= int("Enter second number") print(a, b) a = b, a (a, b)	(2)

Identify the syntax and logical errors and write the correct code. Underline each correction.

OR

(B) Do as directed in python block:

a. Assign 5 to a variable x.

b. Write the statement to compute the square of given number.

25. Rewrite the following code in Python after removing all the errors to get the given output "five neither hello three ". Underline each correction done in the code:

(2)

```
def abc(n):
    if a % 15 == 0:
        print("hello", end = " ")
    elif n % 3 = 0 and n % 5 != 0:
        print("neither", end = " ")
    else if n % 3 == 0:
        print("three", end = " ")
    elif n % 5 == 0:
        print(five, end = " ")
abc(35)
abc(56)
abc(15)
abc(39)
```

26. Write a Python code to check if a number is even or odd.

(2)

27. (A) What is a variable in Python and how is it different from a constant?

OR

(B) What are identifiers in Python and what are the rules for naming them?

(2)

28. (A) Write the python expressions equivalent to the following arithmetic/algebraic expressions.

(i) $x^2 + y^2$ (ii) $\sqrt{x + ((x-10)/4)}$

OR

(B) What will be the output of the following expressions:

(i) 12/4 (ii) 14//14 (iii) 14%4 (iv) 14.0/4

(2)

SECTION – C (3 X 3 = 9 Marks)

29. (A) Write any three differences between RAM and ROM.

(3)

OR

(B) Match the following:

Unit	Description
(1) 1 Byte	(a) 1024Bytes
(2) 1PB	(b) 1024 ZB
(3) 1YB	(c) 1024 PB
(4) 1 GB	(d) 1024 TB
(5) 1 KB	(e) 8 Bits
(6) 1EB	(f) 1024 MB

30. (A) Write python code to generate the following pattern using Nested loop:

(3)

```
*
**
***
****
*****
```

OR

	(B) Write a program script in Python that will print the following series: A B B C C C D D D D E E E E E	
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31.	(A) Differentiate between syntax error and logical error. OR (B) Write a python program to find the area of a triangle.	(3)
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32.	(A) Write a python program to display the sum of the given series: Sum=1+(1+2)+(1+2+3)+(1+ 2+ 3.....n) OR (B) Write a python program to print the sum of the series $1-x^1/2! + x^2/3! - x^3/4! + \dots + x^n/(n+1)!$	
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SECTION – D		
33.	Explain data type conversion in Python. Provide examples of implicit and explicit data type conversion.	(4)

34.	Observe the following python code whose output is 17 and rewrite it after removing all syntactical errors with each correction underlined. <pre> x == 0 for j is range(2,5): for j is range (1, i) : z = i + j - 1 if (z/ 2==0) : x+= z elif (z%3 ==0) : x = x + z - 2 print ("x = ,x) </pre>	(4)
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SECTION – E										
35.	Write a program which accept Sales Amount from user then calculate and print the discounted amount as per the following criteria. <table><tr><th>Sales</th><th>Discounted amount</th></tr><tr><td>Less than 5000</td><td>5% of Sales Amount</td></tr><tr><td>5001 to 10000</td><td>7% of sales Amount</td></tr><tr><td>More than 10000</td><td>10% of Sales Amount</td></tr></table> (e.g. if Sales amount is 400 then Discounted amount would be $400 \times 5 / 100$ i.e. 20)	Sales	Discounted amount	Less than 5000	5% of Sales Amount	5001 to 10000	7% of sales Amount	More than 10000	10% of Sales Amount	(5)
Sales	Discounted amount									
Less than 5000	5% of Sales Amount									
5001 to 10000	7% of sales Amount									
More than 10000	10% of Sales Amount									

36.	Fill in the blanks present in the below python program to take two inputs from user and display the highest between them and check that is it a buzz number or not. [A Buzz number is a number that is either divisible by 7 or ends with 7.] <pre> num1 = int(____ ("Enter the first number: ")) num2 = int(____ ("Enter the second number: ")) if num1 ____ num2: ____ = num1 else: ____ = num2 print(f"The highest number is: {highest}") if(highest ____ == 0 or highest ____ == 7): print(highest, "is a Buzz number.") else: ____ (highest, "is not a Buzz number.") </pre>	(5)
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37.	Write a python program to perform the following within the same program block: (A) Input a number and the number must be a 4-digit number. (B) Find the sum of its digits using while loop and check if the sum is a prime number or not.	(5)
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