

Directorate of Education, GNCT of Delhi
Mid Term Examination Practice Paper
Session: 2025-26
CLASS-XI
Informatics Practices (065)

Time allowed: 3 Hours

Maximum Marks: 70

General Instructions:

1. All questions are compulsory.
2. This question paper contains five sections, Section A to E.
3. Section A has 21 questions (1 mark each).
4. Section B has 7 questions (2 marks each).
5. Section C has 4 questions (3 marks each).
6. Section D has 2 questions (4 marks each).
7. Section E has 3 questions (5 marks each).
8. All programming questions are to be answered using Python Language only.

Section A (1 mark each)

1. True/False: ROM is a non-volatile memory.
2. Which of the following is an example of application software?
 - a) Linux
 - b) MySQL
 - c) Device Driver
 - d) BIOS
3. The storage device with the fastest access time is:
 - a) Hard Disk
 - b) Cache Memory
 - c) CD-ROM
 - d) DVD
4. Which of the following is a primary memory?
 - a) Pen Drive
 - b) RAM
 - c) Blu-ray Disk
 - d) SSD

5. Aarav is confused about operator precedence in Python. Which has the lowest precedence?
 - a) **
 - b) +
 - c) //
 - d) and

6. In Python, the % operator is used for:
 - a) Modulus
 - b) Exponent
 - c) Floor Division
 - d) Division

7. Which loop is suitable when iterations are not known in advance?
 - a) for loop
 - b) while loop
 - c) do-while loop
 - d) if loop

8. In a Python dictionary, keys must be:
 - a) Mutable
 - b) Immutable
 - c) Numeric only
 - d) List

9. True/False: insert() method adds an element at the end of a list.

10. The mode used to execute a Python file saved on disk is:
 - a) Script mode
 - b) Interactive mode
 - c) Debug mode
 - d) Compile mode

11. Which of the following evaluates to True?
 - a) 4 in [1, 2, 3]
 - b) 'p' not in 'apple'
 - c) 'z' in ('a','b','c')
 - d) 10 in (5,10,15)

12. Arrange in increasing order of memory size:

- a) TB < KB < MB < GB
- b) KB < MB < GB < TB
- c) MB < GB < KB < TB
- d) GB < MB < KB < TB

13. What will be the output of:

while False:

print('Hello World')

- a) Prints once
- b) Infinite loop
- c) Nothing
- d) Error

14. In Python, lines beginning with # are called:

- a) Functions
- b) Comments
- c) Operators
- d) Variables

15. Utility software is used to:

- a) Perform user-specific tasks
- b) Manage system hardware
- c) Provide antivirus, backup
- d) Boot OS

16. What will be the data type of:

`x = 17 // 5`

- a) int
- b) float
- c) bool
- d) str

17. Which type of memory is directly accessible by CPU?

- a) Hard Disk
- b) SSD
- c) RAM
- d) Optical Disk

18. What is the output of:

```
len('Python')
```

- a) 5
- b) 6
- c) 7
- d) Error

19. Pandas library in Python is used for:

- a) Data analysis
- b) Graphics
- c) Web development
- d) Text editing

Q-20 and Q-21 are ASSERTION AND REASONING based questions. Mark the correct choice as

- a. Both A and R are True and R is the correct explanation for A**
- b. Both A and R are True and R is not the correct explanation for A**
- c. A is True but R is False**
- d. A is False but R is True**

20. Assertion (A): In Python, indentation defines a block of code.

Reason (R): Indentation improves readability but does not affect execution.

21. Assertion (A): Tuples are immutable in Python.

Reason (R): This makes them faster than lists for iteration.

Section B (2 marks each)

22. Predict output:

```
print('CS' + '2026')  
print(4 * 'Python')
```

OR

Explain concatenation and replication with examples.

23. Find and correct the error:

```
num = int(input('Enter number: '))  
if num%2=0:  
    print('Even')  
else  
    print('Odd')
```

24. Differentiate between == and is operators in Python with examples.

25. Kriti is confused between extend() and append(). Explain with examples.

OR

Remove 'blue' from list: colors = ['red','green','blue','yellow']

26. Write output:

```
data = [5,15,25,35]
data.append(45)
print(data)
data.remove(25)
print(data)
```

27. Evaluate:

- a) $28 \% 6$
- b) $3 ** 3$
- c) $25/4$
- d) $25//4$

OR

Evaluate:

- a) $8+2*5$
- b) $20-6/3$
- c) $9<12$ and $4>7$
- d) $\text{not}(6!=6)$

28. Classify as mutable/immutable:

- a) Set
- b) String
- c) List
- d) Tuple

Section C (3 marks each)

29. Kabir installed an antivirus and spreadsheet software. Explain difference between system and application software with examples.

OR

Nisha purchased PC, connected scanner and speakers. Differentiate input/output devices and classify scanner, speakers, mouse, monitor.

30. Explain two modes of executing Python programs with one difference.

31. NumPy program:

- Create array [2,4,6,8]
- Find minimum and mean

OR

Create NumPy array [10,20,30], multiply elements by 3, print updated array.

32. Write output:

```
names=['Ravi','Maya','Kiran','Asha']  
deleted=names.pop(1)  
names.sort()  
print(names)  
print('Deleted:',deleted)
```

Section D (4 marks each)

33. Meena deleted photos and later restored with recovery tool.

- a) Why able to recover? (2)
- b) Define data recovery. (1)
- c) Suggest one permanent delete method. (1)

34. State True/False:

- i) Python supports numeric and non-numeric data types.
- ii) A list cannot contain another list.
- iii) Identifiers are case-sensitive.
- iv) remove() deletes by index.

OR

- i) input() returns string.
- ii) Python is case-insensitive.
- iii) for is a keyword.
- iv) print(2+'2') runs successfully.

Section E (5 marks each)

35. Ajay typed notes, saved them, mailed via Internet. Explain with diagram how four units of computer help.

36. Predict output:

```
print('Welcome'[0:3])  
print('12'*3+'34')
```

```
print('Check:',7>=5,2==3)
print('X','Y',sep='@',end='!')
print('Z\nP\tQ')
```

37. Fill in blanks:

```
nums=[2,4,6,8]
nums._____ #a add 10 at end
nums._____ #b remove 4
print(_____) #c count
student={'id':101,'name':'Simran'}
student._____ #d add ('grade','A')
print(student._____) #e get name
```

OR

```
cities=['Agra','Delhi','Goa']
cities._____ #a add Jaipur
cities._____ #b remove Delhi
print(_____) #c count
info={'roll':21,'class':'11A'}
info._____ #d add ('marks',88)
print(info._____) #e get class
```