INDIAN SCHOOL SOHAR
UNIT TEST I (2023-24)
INFORMATICS PRACTICES (065)
SET I

CLASS: XI   **MAX. MARKS: 20**
DATE: 23/05/2023   **TIME: 40 MINUTES**

GENERAL INSTRUCTIONS: -

1. This question paper contains five sections, Section A to E.
2. All the questions are compulsory.
3. Section A has 6 questions carrying 01 mark each.
4. Section B has 01 Very Short Answer type question carrying 02 marks.
5. Section C has 01 Short Answer type question carrying 03 marks.
6. Section D has 01 question carrying 04 marks. One internal choice is given in Q9 against part iii only.
7. Section E has 01 Long Answer type question with internal choice carrying 05 marks.
8. All programming questions are to be answered using Python language only.

SECTION - A

1. Which of the following are special meaning words in python?   1
    a) Identifiers   b) Literals   c) Keywords   d) Tokens

2. Which of the following is a file management tool?   1
    a) Quick Heal   b) Total Commander
    c) WinRAR   d) Disk Defragmenter

3. Which of the following is a valid identifier?   1
    a) _myfile001   b) 001myfile   c) _myfile.py   d) my-file001

4. Which of the following controls and guides the interpretation, flow and manipulation of all data   1
    and information?
    a) Arithmetic Logic Unit   b) Control Unit   c) Primary memory   d) Registers

Q5 and Q6 are **ASSERTION AND REASONING** based questions. Mark the correct choice as:
   i.   Both A and R are True and R is the correct explanation for A
   ii.   Both A and R are True and R is not the correct explanation for A
   iii.   A is True but R is False
   iv.   A is False but R is True

5. **Assertion (A)**: SSD is faster than other hard disk storage technologies.   1

    Reasoning (R): SSD does not use RAM like working mechanism.

6. **Assertion (A)**: Python is not strong on type-binding.   1

    Reasoning (R): Python is not very strong on identifying type mismatch errors

SECTION – B

7. Write a python program to find volume of a cylinder with appropriate user input for radius and   2
    height of the cylinder.

    NOTE: Volume = $\pi r^2 h$ and π = 3.14

SECTION – C

8. Define the following terms with a suitable example: 1 + 1 + 1

   i. FLOSS software
   ii. General purpose software
   iii. Data capturing

SECTION – D

9. Mr. Roger is working as a Computer Science faculty in a college. He is teaching concepts of 1 + 1 + 2 Computer System to the students. Help him to answer the following:

   i. Explain cache memory.
   ii. 1 zetta byte is equivalent to how many exa bytes?
   iii. Explain operating systems with an appropriate example.

OR

   iii. Explain language processors with its types.

SECTION – E

10. Ms. Prerna is working as a Python programmer in an MNC. Help her to answer the following: 5

   i. Explain interactive and script mode.
   ii. Write the equivalent exponent form for 0.0000546.
   iii. Explain identifiers.
   iv. Predict the output of the following code:
   ```
   v1, v2, v3 = 24.5, 9, 16.7
   v3, v1, v2 = v1 - 19/2, v3 - 4.7, v1 - 12
   print(v1, v2, v3, sep = '@')
   ```
   v. Identify the error(s) and write the correct statement.
   ```
   print('I'm 16 years old.\N I'm studying in grade XI.')
   ```

OR

Ms. Ameena is working as a Python developer in an IT company. Help her to answer the following:

   i. Write any two features of python.
   ii. Write the equivalent exponent form of 160075.
   iii. Explain string literals.
   iv. Predict the output of the following code:
   ```
   v1, v2, v3 = -0.45, 2.54, 1.89
   v3, v1, v2 = v1 + 2.0, v3 - 1.0, v1 + 2.5
   print(v1, v2, v3, end = '%')
   ```
   v. Identify the error(s) and write the correct program. Consider that the variable x takes numeric input.
   ```
   x = input('Enter x = ')
   y = x + 2.5
   print(x; y)
   ```

INDIAN SCHOOL SOHAR
UNIT TEST I (2023-24)
INFORMATICS PRACTICES (065)
SET II

CLASS: XI	MAX. MARKS: 20
DATE: 23/05/2023	TIME: 40 MINUTES

GENERAL INSTRUCTIONS: -
1. This question paper contains five sections, Section A to E.
2. All the questions are compulsory.
3. Section A has 6 questions carrying 01 mark each.
4. Section B has 01 Very Short Answer type question carrying 02 marks.
5. Section C has 01 Short Answer type question carrying 03 marks.
6. Section D has 01 question carrying 04 marks. One internal choice is given in Q9 against part iii only.
7. Section E has 01 Long Answer type question with internal choice carrying 05 marks.
8. All programming questions are to be answered using Python language only.

SECTION - A

1. Which of the following is a correct way of defining a string literal? 1
   a) S1 = 'Hello,\
       How are you'
   b) S1 = 'Hello, how are you?"
   c) S1 = 'Hello, I'm fine'
   d) S1 = "Hello,
       How are you?"

2. Which of the following is a type of FLOSS software? 1
   a) Windows OS
   b) Adobe Premier Pro
   c) MySQL
   d) Quick Heal antivirus

3. Which of the following is **NOT** a valid floating point literal? 1
   a) 36.   b) 9.78   c) 7.678E-3   d) 67.78E2.4

4. Which of the following is a special high-speed storage mechanism, that is either a reserved section of main memory or an independent storage device? 1
   a) ROM   b) Cache Memory   c) Primary memory   d) Registers

Q5 and Q6 are ASSERTION AND REASONING based questions. Mark the correct choice as
   i.   Both A and R are True and R is the correct explanation for A
   ii.   Both A and R are True and R is not the correct explanation for A
   iii. A is True but R is False
   iv.   A is False but R is True

5. **Assertion (A)**: Freeware and free softwares are not of same type. 1
   Reasoning (R): Freeware softwares are available free of cost but modification is not allowed and free softwares can be used free of cost and modified.

6. **Assertion (A)**: The output of python commands written in interactive mode cannot be seen together. 1
   Reasoning (R): Programs written in interactive modes can be saved.

SECTION - B

7. Write a python program which takes user input for Celsius temperature and converts it into Fahrenheit temperature.   2

NOTE: F = C * 9/5 + 32.0, where F is Fahrenheit temperature and C is Celcius temperature.

SECTION - C

8. Define the following terms with a suitable example: 1 + 1 + 1

   i. Proprietary software
   ii. Primary memory
   iii. Data storage

SECTION - D

9. Ms. Kajal is working as a Computer Science faculty in a college. He is teaching concepts of Computer System to the students. Help him to answer the following: 1 + 1 + 2
   i. Explain backup utility.
   ii. 1024 exa bytes are equivalent to how many bytes?
   iii. Explain system bus with its types.

OR

   iii. Explain system utilities.

SECTION - E

10. Mr. Jayur is working as a Python programmer in an MNC. Help him to answer the following: 5

   i. Explain blocks and indentation.
   ii. Write the equivalent exponent form for 240569.
   iii. Explain expressions in python with appropriate example.
   iv. Predict the output of the following code with inputs s1 = 14.5 and s2 = 6.5:
```
s1 = input('s1 = ')
s2 = input('s2 = ')
print(s1, s2, sep = '+')
```
   v. Identify the error(s) and write the correct python program.
```
nm, age = 'Tia'
age = 25
print('I am', nm + age, ' years old')
```

OR

Ms. Ameena is working as a Python developer in an IT company. Help her to answer the following:

   i. Write any two disadvantages of python.
   ii. Write the equivalent exponent form of 0.0001024.
   iii. Explain special literal **None**.
   iv. Predict the output:
```
v1, v2, v3 = -5, 2.5, 4
v3, v1, v2 = v1 + 3, v3 - 1, v2 + 2.5
print(v1, v2, end = '$')
print(v3)
```
   v. Identify the error(s) and write the correct python program.
```
a, b; c = 9, 4, 7
c, a, c = a – b, b + c, c – b
print('Result = ", a, c, b)
```

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