INDIAN SCHOOL SOHAR
UNIT TEST I (2024-25)
INFORMATICS PRACTICES (065)
SET I

CLASS: XI   **MAX. MARKS: 20**
DATE: 26/05/2024   **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. Equivalent exponent form of 98035.52 is _____.   1
    a) 9.803552E4   b) 9803552E-5   c) 9803552E-4   d) 9.803552E5

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

3. Disk Defragmenter is an example of _____ .   1
    a) Application Software   b) System software
    c) Utility Software   d) Operating System

4. Which of the following is a valid identifier?   1
    a) Abc.123   b) True   c) Abc-123   d) _ABC123

5. The software that is free for anyone, and its source code is available for access, modification,
    correction and improvement is called _____.   1
    a) Proprietary software   b) Freeware   c) FOSS   d) Shareware

Q6 is an **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

6. **Assertion (A)**: The primary memory is volatile memory as all its contents get erased as soon
                      as the power goes off.   1

    Reasoning (R): The cache memory is a reserved section of primary memory.

SECTION – B

7. Write a Python program which takes user inputs for outer radius(R) and inner radius(r) of a
    spherical shell. Calculate and display the volume of the spherical shell.   2
    Formula: Volume = $\frac{4}{3}\pi$ ($R^3 – r^3$) and π = 3.14

SECTION – C

8. Explain the following: 3

   i. Data Retrieval   ii. Device Driver   iii. Proprietary Software

SECTION – D

9. Mr. Sumit is writing a book on Computer System. Help him to answer the following: 1 + 1 + 2
   i. Convert the following: a) 1.5GB = _____bytes   b) 1____= 1024PB
   ii. Identify the category (System / Application) of the following software:
     a) Google Chrome   b) Google Desktop
   iii. What is the importance of an Operating System? Name the any two types of OS.

<div align="center">OR</div>

   Explain System bus.

SECTION – E

10. Ms. Prerna is working as a Python programmer in an MNC. Help her to answer the following: 5
   i. How to put comments in Python ?
   ii. What are variables?
   iii. Write any two disadvantages of Python.
   iv. Underline the error(s) and rewrite the correct code:
     A=Input("enter the your name')
   v. Predict the output of the following code:

```
a=5
b=a*3
print(a,b,sep=',')
a,c=b-2,a+2
print(b,c,end=',')
```

<div align="center">OR</div>

   i. What is a statement in Python?
   ii. How do you create multi-line strings in Python?
   iii. Write any two features of Python.
   iv. Underline the error(s) and rewrite the correct code:
     print('India's struggle for independence: \N led to the Indian Freedom Movement')
   v. Predict the output of the following code:

```
x,y=3,6
x,y,x=y,x+1,y+2
print(y,x,sep='',end='...')
print(x+1,y-2,sep='')
```

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