PRATAP PUBLIC SCHOOL, KARNAL
MID TERM EXAMINATION (2023-24)
CLASS - XI
SUBJECT – COMPUTER SCIENCE (Optional)

M.T. : 3 Hrs.   M.M.70

General Instructions

1. All questions are compulsory.
2. Section A has 18 questions carrying 01 mark each.
3. Section B has 07 Very Short Answer type questions carrying 02 marks each.
4. Section C has 05 Short Answer type questions carrying 03 marks each.
5. Section D has 02 Long Answer type questions carrying 04 marks each.
6. Section E has 03 questions carrying 05 marks each.
7. All programming questions are to be answered using Python Language only.

Section –A
Each question carries 1 mark

Q1. Identifier name cannot be composed of special characters other than _____ .
   a) #   b) Hyphen(-)   c) $ d)Underscore (_)

Q2. Symbol used to end the ' if ' statement :
   a) Semicolon (;)   b) Hyphen (-)   c) Underscore (_)   d) Colon (:)

Q3. What is the order of precedence of arithmetic operators given below in python ?
   1 Parenthesis   2. Exponential   3. Multiplication
   4. Division   5. Addition   6. Subtraction

   a) 1,2,3,4,5,6   b) 2,3,4,5,6,1   c) 1,3,2,6,4,5   d) 4,6,5,2,3,1

Q4. The reserved words used by python interpreter to recognize the structure of a program are termed as _____ .
   a) Identifiers   b) Tokens   c) Literals   d) Keywords

Q5 Which of the following statement is not a loop in python?

   a) for   b) do - while   c) while   d) All of these

Q6. An empty/null statement in python is : .
   a) Go   b) break   c) Pass   d) Over

Q7. The three greater than signs (>>>) are called the python _____ .
   a) Cursor   b) Command Prompt   c) Pointer   d) Blinking Cursor

Q8. Which statement is used to iterate itself over a range of values or a sequence ?
   a) if   b) while   c) do-while   d) for

Q9. To concatenate means to _____

a) replicate   b) join   c) split   d) multiply

Q10. Which of the following is not a Python legal string operation ?
a) 'abc' + 'abc'   b) 'abc' * 3   c) 'abc' + 3   d) 'abc'.lower()

Q11. The input() always returns a value of _____ type.
a) integer   b) string   c) float   d) list

Q12. What is the ASCII equivalent decimal number for 'F'
a) 65   b) 70   c) 72   d) 69

Q13. What abandons the current iteration of the loop ?
a) Continue   b) Break   c) Stop   d) Infinite

Q14. The sequential accessing of each of the elements in a list is called _____ .
a) List Indexing   b) List Slicing   c) List Traversal   d) List Accessing

Q15. Which function is used to return a value for the given key ?
a) len()   b) get()   c) keys()   d) None of these

Q16. In a dictionary, the elements are accessed through
a) key   b) value   c) index   d) None of these

Q17. Identify the correct print() statement.
a) Print(hello)   b) print("hello")   c) print('hello   d) print "hello)

Q18. The interactive interpreter of python is termed as :
a) Python Shell   b) Python Script Mode   c) Python command line

Section –B
Each question carries 2 marks

Q19 . What is the purpose of relational operators ? Explain

Q20. a) What is a dictionary ?   2

b) Can list be used as keys in python dictionaries ? Justify your answer   1

Q21. What is the difference between pop() and remove()   1

Q22. What are logical operators ? Explain   2

Q23. What is an Escape sequence character ? Give at least two examples with explanation. 2

Q24. Give the output of following when n1=4, n2=3 and n3=2   2
a) n1+=n2 + n3
    Print (n1)
b) num1 = '5' + '5'   2
    print (num1)

2

Q25. Suppose L= ["abc", [6,7,8], 3 , 'mouse']

Consider the above list and answer the following

a) L[3:]   b) L[1][1]   c) L [1:2]   d) L[: : 2]   2

OR

Consider the above tuple 'T1' and answer the following questions

T1= (10,20,"book",30,9.5,"item",[12,13],(3,4),30,5,30)

a) T1 [-8:-4]   b) T1.index(20)   c) T1.count(30)   d) any(T1)

SECTION – C

Each question carries 3 marks

Q 26. Find error(s) in the following and rewrite after correcting.   3

a) tup1 = (1, "school" , 6, 7)

print(max(tup1))

b) a=30

b=a + b

print (a And b)

c) x=24

4=x

OR

Explain the three different methods of importing modules in python .

Q27 a). Write the most appropriate list method to perform the following tasks: 1+2
   i)   Get the position of an element in the list.
   ii) Add an element at the beginning of the list.

b) Given below are statements for creating lists. Find errors, if any, and rewrite the correct statements.

i) L1 = 1,6,a,8
ii) L2 = (10)
iii) L1 = [[0,1,2,3]['my','book']]
iv) L1= ['a','b','c' [1,2,3,A])

Q28. What is the purpose of range()? Write its syntax and explain with an example   3

3

Q29. . a) What are variable naming rules?   2

    b) What is the difference between a variable and a keyword?   1

Q30. a) Evaluate the following expressions :   2

    i)   (12+3) * 4 – 6 / 2

    ii)   12 * (3 % 4) // 2 + 6   1

    b) What is short hand assignment operator ? Explain with an example.

Section D
Each question carries 4 marks

Q31 a) What do you understand by comments ? Explain.   2

    b) What is the difference between eval() and input() ?   2

Q32. a) What is nested loops? Explain its working   2

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

    What is the difference between lists and tuples ?

    b) Write output of following   2

```
d1 = {1:10, 2:20, 3:30, 4:40}
d2 = {5:50, 6:60, 7:70}
d1.update (d2)
print (d1)
```

Section E
Each question carries 5 marks

Q33.   a) How does strings are compared ?   1

    b) What is the difference between break and continue statement ?   2

    c) What is a python module ?   1

    d) Explain the purpose of fabs() with an example .   1

Q34. a) What is the purpose of ' pass' statement ?   1

    b) What is the significance of updating loop control variable in while statements ?   1

    c) Construct a logical expression to represent each of the following conditions :   2

    i)   Answer is either 'N' or 'n'.

    ii)   Num is between 0 and 5 but not equal to 2.

    d) What is the purpose of 'else' in a loop ?   1

Q35. a) What is the difference between for and while loop ?   2

    b) What is the similarity between tuples and strings ?   1

    c) Identify the types of following literals :   2

    23.789, 'True', False, "False"