



VIDYAA VIKAS INTERNATIONAL SCHOOL

KARAMADAI, CBE - 641 104.

SESSION ENDING EXAMINATION (2022-23)

COMPUTER SCIENCE [083]

STD : XI
MARKS :70

DATE : 08.02.2023
TIME :3 hrs

General Instructions:

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

SECTION- A

(18x1=18)

1. What is information?
 - i) Processed data
 - ii) Collection of programs
 - iii) Collection of instructions
 - iv) None of these
2. 1 TB is equivalent to:
 - i) 2^{10} bytes
 - ii) 2^{10} MB
 - iii) 2^{10} GB
 - iv) 2^{10} KB
3. Convert the following into Kilobytes:
2.7 GB= Kilobytes
 - i) 2831155.2
 - ii) 2764.8
 - iii) 2831155.02
 - iv) 2764.08
4. What is the full form of ISCII?
 - i) International Standard Code for Information Interchange
 - ii) Indian Standard Code for Information Interchange.
 - iii) International Script Code for Information Interchange.
 - iv) None of these
5. Which of the following is not a binary number?
 - a) 1111
 - ii) 101
 - iii) 11E
 - iv) 000

6. A is a representation of a Boolean function or expression containing all possible combination of input values and their result in a tabular format.
7. The three greater than signs (>>>) are called the Python
 - i) Cursor
 - ii) Prompt
 - iii) Pointer
 - iv) Blinking cursor
8. Which of the following is not an example of Computational Thinking?
 - i) Taking all the requirements into consideration before starting a task.
 - ii) Analyzing the bottlenecks involved.
 - iii) Allowing any of the members to take decisions for the entire team.
 - iv) Taking into consider how much time and money will be spent.
9. Python programming can be done in and modes.
10. Which of the following is an open – source software?
 - i) Microsoft Windows
 - ii) Adobe Photoshop
 - iii) MySQL
 - iv) MS PowerPoint
11. The practice of attempting to acquire sensitivity information from individuals over the internet by means of deception is called
12. This is a unique address assigned to every computer when connected to a network.
 - a) MAC address
 - b) Computer name
 - c) URL address
 - d) IP address
13. What is the name of the IT law that India is having in the Indian legislature?
 - a) Indian Technology (IT) Act, 2000
 - b) Digital Information Technology Act, 2000
 - c) Information Technology (IT) Act, 2000
 - d) The Technology Act, 2000
14. A module can be classified as either or
15. What will be the output on screen after executing: ***print (math. fabs (-6.4))***?
 - a) -6.4
 - b) 6.4
 - c) 4.0
 - d) 5.0

16. Write a Python program to compute x^n of given two integers x and n.
17. Which of the following is an invalid statement?
a) `a=b=c=2` b) `a,b,c=10, 20,30`
c) `a b c = 20, 30, 40` d) `a_b_c=20`
18. How many times is the word “Python” printed in the following statement?
`s='I love python'`
`for ch in s [3:8]:`
`print ('python')`
a) 11 times b) 8 times c) 3 times d) 5 times

SECTION- B

(7X2=14)

19. Given below are some features of two types of computer – RAM and ROM.
List each feature under RAM or ROM.
a) Non – volatile memory
b) Contents can't be changed
c) Stores data or files the user is currently working on
d) Volatile memory
20. Verify the following using truth table.
$$X + Y.Z = (X + Y) (X + Z)$$
21. What are the four main parts of computational thinking?
22. What is an IP address?
23. Write the differences between ***Ethical Hacking*** and ***Non – ethical Hacking***
(or)
Write the differences between ***Free software*** and ***Free and Open Source Software***
24. What are variables? How are they important for a program?
(or)
What is Dynamic Typing feature in Python?

25. Write a Python program to accept a number from the user and display whether it is an even number or odd number.

(or)

Write a Python program to accept a string and display whether it is a palindrome.

SECTION- C

(5X3=15)

26. Define Strings in Python. How will you create a empty string?

(or)

Define Jump statements in Python. Differentiate between break and continue.

27. Find errors, underline them and rewrite the same after correcting the following code:

```
d1=dict [ ]
i= 1
n = input ("Enter number of entries:")
while i<=n:
    a= input ("Enter name:")
    b = input ("Enter age:")
    d1 (a) = b
    i = i + 1
I = d1. Key [ ]
for i in 1:
    print (i, '\t', 'd1[i]')
```

(or)

Consider the following code and find out the error:

a) *t1= (10, 20, 30, 40)*

b) *tup1 = (10, 20, 30)*

X, Y, Z=t1

tup2= tup1(3,)*

c) *T1=(10, 20,30,40)*

T2= (40, 50, 60)

T1, T2, T3= T1, T2

28. Predict the output of the following

```
import math
import statistics
import random
print (math. ceil (187.56))
print (math. sqrt (169))
print (statistics. median ([ 1,2,3,7,8,9]))
(or)
```

What are the possible outcome(s) executed from the following code? Also, specify the maximum and minimum values.

```
import random
```

```
PICK= random. randint (0,3)
CITY = ["DELHI", "MUMBAI", "CHENNAI", "KOLKATA"]
for I in CITY:
    for J in range (1, PICK):
        print (I, end = " ")
    print ( )
```

i)

DELHIDELHI
MUMBAIMUMBAI
CHENNAICHENNAI
KOLKATAKOLKATA

ii)

DELHI
DELHIMUMBAI
DELHIMUMBAICHENNAI

iii)

DELHI
MUMBAI
CHENNAI
KOLKATA

iv)

DELHI
MUMBAIMUMBAI
KOLKATAKOLKATAKOLKATA

29 Write a Python program to print the following pattern:

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

(or)

Write a Python program to print Fibonacci series upto certain limit.

30. Write a Python program to swap the content with next value divisible by 7 in a python List.

(or)

Write a Python program in Python to find and display the sum of all the values which are ending with 3 from a list.

SECTION- D

(3X5=15)

31. Explain the special operations performed on python strings with suitable syntax and example.
32. Explain the dictionary manipulation methods of python with suitable syntax and example.
33. Define – Operator. Explain the different types of Operators in Python with suitable examples.

(or)

Define- Tokens. Explain the different types of tokens in Python with suitable example.

SECTION- E

(2X4=8)

34. Write a Python program that counts the number of alphabets and digits, uppercase letters, lowercase letter, spaces and other characters in the string entered.

(or)

Write a Python program to accept percentage of a student and display its grade accordingly.

35. Write a Python program to input names of 'n' countries and their capital and currency, store it in a dictionary and display in tabular form. Also search and display for a particular country.

(or)

Write a Python program to find whether the given number is an Armstrong number or not.

😊😊 ALL THE BEST 😊😊