THE VILLAGE
INTERNATIONAL SCHOOL
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AIM HIGH, TOGETHER WE FLY

CLASS XI	FIRST TERMINAL EXAMINATION 2023-24	Time: 3 HRS
Date:15/09/23	Subject: INFORMATICS PRACTICES (065)	Max Marks: 70

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 E has 03 Long Answer type questions carrying 05 marks each.
7. Section D has 02 questions carrying 04 marks each. One internal choice isgiven in Q35 against part c only.
8. All programming questions are to be answered using Python Language only.

QNo.	Section-A	Marks
1	Which of the following is an invalid identifier? a. Class_ul b. csclass12 c. _csclass12 d. 5num	1
2	Which of the following operator is floor division in Python ? (a) // (b) ? (c) + (d) >	1
3	Consider the given expression: **not True and False or True** Which of the following will be correct output if the given expression is evaluated? (a) True (b) False (c) NONE (d) NULL	1
4	Identify the immutable data types? (i) List (ii) set (iii) Dictionary (iv) String	1
5	What is the full form of RAM. a) Read Access Memory b) Random Access Memory c)Raw Access Memory d)Right Access Memory	1
6	Storage of 1KB means the following number of bytes: 1000 b)964 c) 1024 d)1064	1
7	Suppose List1 = [12,24,32,11,40,55]what is the output of len(List1)?	1
8	List the names of two components of the CPU.	1
9	Read the code shown below carefully and pick out the keys? d = {"john":40, "peter":45} a) "john", 40, 45, and "peter" b) "john" and "peter" c) 40 and 45 d) d = (40:"john", 45:"peter")	1
10	Write the output of the following code. x=2 y=3 x=x+y print(x,y)	1

11	In python _____ mode does not save the commands while _____ mode allows programs to save.	1
12	Who developed python programming language a. Alan Turing b.Dennis Richie c. Guido Van Rossum d.Tim Berners Lee	1
13	_____ are reserved words used by python interpreter to recognize the structure of a program. i) Identifiers ii) Tokens iii) Literals iv) Keywords	1
14	The symbol used to end the if statement: i) Semicolon(;) ii) Hyphen(-) iii) Underscore(_) iv) colon(:)	1
15	Write a statement in Python to declare a dictionary named **dict** whose keys are 10,20,30,40 and values are ANT,FROG,COW,GOAT.	1

16	Identify the data type of NEW:
	          NEW= [10,30,50,'A','B',55,25]
	  a. Dictionary b. String c. Tuple d. List
		1

17	**Assertion (A)** : Python is a Free and Open source language.
	  Reason (R) :Python is a cross platform language.
	  (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
		1

18	**Assertion(A):** list is a mutable data type
	Reasoning(R): Once the list is defined we can change the values in the list.
	  (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
		1

SECTION-B		
19	Evaluate the following expressions: (a) 3 * 3 + 2**2 // 5 – 7 (b) 12 > 5 and 6 > 12 or not 8 <13	2
20	Find the output of the following code. for a in range(25,500,25): print(a)	2
21	What do you mean by mutable and immutable property of data object? Write examples for mutable and immutable data types in python. **OR** What is the difference between a keyword and a variable? Explain with examples.	2
22	Write a program to print the first 10 even numbers using for loop. **OR** Write a program to print the multiples of 5 between 100 and 200.	2

23	Observe the following code carefully and rewrite it after removing all syntax and logical errors. Underline all the corrections made.
	       num=int(input("Enter a value))
	       If num>10
	         Print(num)
	       else
	       print(num+1)
		2

24	Predict the output of the following code.
	  x = 3
	  if x == 0:
	    print ("Am I learning python?", end = ' ')
	  elif x == 3:
	    print("Or learning python?", end = ' ')
	  else :
	    print ("Or learning python 4 cbse?")
	  print("yes python is Free software")
		2

25	Write a note on computer memory?Explain the different types of memory.	2

Section- C

26	Write a program to find the largest among two numbers? OR Write a python program to print the multiplication table of any number.	3

27	a) Write the output from the following code:
	    x,y= 2,4
	    if ((x+y) = = 10):
	        print("True")
	    else:
	        print("False")
	b) Write the output of the following codes:
	    a,b,c=10,20,30
	    p,q,r=c-5,a+3,b-4
	    print("a and b ,c :" ,p,q,r)
	OR
	Find the output.
	  i. a=5
	       b=2*a
	       print(a,b)
	  ii. p,q,r=2,8,9
	       r,q,p=p-q,p-1,r+1
	       print(p,q,r)
		3

28	i. What are the advantages and disadvantages of python programming. ii. Give the output of the following a)print("4+6") b)print(4+6)	3
29	a) Explain tokens with an example. Write a python program and identify the tokens from it.	3

30	What is meant by language processor? Differentiate between compiler and interpreter. **OR** Write a python program to read a number and check it is divisible by 10.	3

	Section-D	
31.	a) Which of the following names are invalid and why? 　i.　　Serial_no. 　ii.　　1ˢᵗ_Room 　iii.　　Hundred$ 　iv.　　Total Marks 　v.　　Total_Marks 　vi.　　True 　b)　　a=(10,20,30) 　　　　type(a) **OR** a)Identify the types of the following literals. 　i.　　101 　ii.　　134.25 　iii.　　"hello" 　iv.　　"True" 　v.　　True 　vi.　　[40,77,66,44] b)Difference between the outputs of　10/2　and　10//2 .	4

32.	write the output of the given codes.
	　i.　　　x=5
	　　　　　if x>2 and x==6:
	　　　　　　　print("ok")
	　　　　　else:
	　　　　　　　print("sorry")
	
	　ii.　　for i in range(20,30,2):
	　　　　　　print(i)
	　iii.　　for x in range(10,20):
	　　　　　　if(x==15):
	　　　　　　　break
	　　　　　　print(x)
		4

	SECTION E	
33.	Describe the basic architecture and functioning of a computer system with diagram.	5
34.	a)What is meant by a string? b)s="Python Programming" 　write the output of **len(s).** c)for i in "computer": 　　　print(I,end=" ") **OR** a)Is python a compiler language or an interpreter language? What does it mean to you? b)What is output unit? write the name of two output devices. c) for i in range(1,10,2): 　　　print(i,end=" ")	5

35.		5
	a) Write a python program to print all the even numbers between 100 and 200. b) What do you understand by the term immutable? Which are the immutable data types in python. **OR** a) Write a menu driven program to find the area of circle, rectangle and square b) Explain the features of python programming.	