



Indian School Al Wadi Al Kabir

Unit Test – 1

COMPUTER SCIENCE (Code: 083)

SET I

CLASS : XII

Date: 25/05/2025

Max. Marks:30

Time: 1 hour

General Instructions:

1. This question paper contains four sections, Section A to D.
2. All questions are compulsory.
3. Section A has 10 questions carrying 01 mark each.
4. Section B has 03 Very Short Answer type questions carrying 02 marks each.
5. Section C has 02 Short Answer type questions carrying 03 marks each.
6. Section D has 02 questions carrying 04 marks each.
7. All programming questions are to be answered using Python Language only.

SECTION –A		
Q. No.	Question	Marks
1.	State whether the following statement is True or False: An exception may be raised even if the program is syntactically correct.	1
2.	Given the following dictionary Month={1:"January",2:"February",3:"March"} Which statement will return "February"? A. Month.pop() B. Month.pop(2) C. Month.pop(1) D. Month.pop("February")	1
3.	Consider the given expression: 2<4 or 16>13 and not 19==19 or 17>4 Which of the following will be the correct output if the given expression is evaluated? A. True B. False C. NONE D. NULL	1
4.	Which of the following statement(s) would give an error after executing the following code? CL="Class 12" #Statement1 print(CL*2) #Statement2 CL+="Computer" #Statement3 CL.append("Science ") #Statement4 print(CL) #Statement5	1

	A. Statement2 B. Statement3 C. Statement4 D. Statement 3 and 4	
5.	What will the following expression be evaluated to in Python? <code>print (16 // (4 + 2) * 5 + 2**3 **2)</code>	1
6.	Which of the following statement is false? A. Try block tests the excepted error to occur B. Except block handles the run time error C. Multiple except blocks cannot be associated to one try block D. Finally block always gets executed either exception is generated or not	1
7.	The 'r+' mode will: A. Enable both reading and writing. B. Raise an error if the file doesn't exist. C. Append in the already existing file. D. Both (A) & (B)	1
8.	Which output is not expected from the following program: <pre>import random x=3 N=random.randint(1,x) for i in range(N): print (i,"#",i+1)</pre> A. 0#1 B. 0#1 C. 0#1 D. 0#1 1#2 2#3 1#2 1#2 2#3 2#4 3#4 2#4	1
9.	Which of the following command can be used to read "n" number of characters from a file using the file object <file>? A. file.read() B. m = file.read(n) C. file.readline(n) D. file.readlines()	1
10.	Assertion: The function header 'def read (a=2, b=5, c):' is not correct. Reason: Non-default arguments can't follow default arguments. Please choose the correct choice out of the four options given below: 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	
11.	Predict the output of the following code: <pre>T = (9,18,27,36,45,54) T1 = tuple() for i in T: if i%6==0:</pre>	2

	<pre>T1=T1+(i,) print(T1)</pre>									
12.	<p>Write the output of the Python code given below:</p> <pre>g=0 def fun1(x,y): global g g=x+y return g def fun2(m,n): global g g=m-n return g k=fun1(2,3) fun2(k,7) print(g)</pre>	2								
13.	<p>Write the Python statement for each of the following tasks using BUILT-IN functions/methods only:</p> <p>(i) To insert an element 100 at the Second position, in the list L1.</p> <p>(ii) To check whether all the characters in the string S1 are digits or not.</p>	2								
	<p style="text-align: center;">SECTION C</p>									
14.	<p>Write a user defined function in Python named showGrades(S) which takes the dictionary S as an argument. The dictionary, S contains Name:[Eng,Math,Science] as key:value pairs. The function displays the corresponding grade obtained by the students according to the following grading rules :</p> <table border="1"><thead><tr><th>Average of Eng,Math,Science</th><th>Grade</th></tr></thead><tbody><tr><td>>=90</td><td>A</td></tr><tr><td><90 but >=60</td><td>B</td></tr><tr><td><60</td><td>C</td></tr></tbody></table> <p>For example : Consider the following dictionary. S={"AMIT": [92,86,64], "NAGMA": [65,42,43], "DAVID": [92,90,88]}</p> <p>The output should be : AMIT– B NAGMA– C DAVID– A</p>	Average of Eng,Math,Science	Grade	>=90	A	<90 but >=60	B	<60	C	3
Average of Eng,Math,Science	Grade									
>=90	A									
<90 but >=60	B									
<60	C									
15.	<p>A. Predict the output of the following code</p> <pre>def execute(x,y=200): temp=x+y print (temp,x,y,sep='#') a,b=50,20 execute(b) execute(b,a)</pre> <p>B. Write a program to read the file letter.txt and display those words which has less than or equal to four characters.</p>	1+2=3								
	<p style="text-align: center;">SECTION D</p>									
16.	<p>A. Differentiate between seek() and tell() in files.</p> <p>B. A binary file, EMP.DAT has the following structure: [Emp_Id, Name, Salary] where Emp Id : Employee id</p>	1+3=4								

	Name: Employee Name Salary: Employee Salary Write a user defined function, disp_Detail(), that would read the contents of the file EMP.DAT and update the details of those employees whose salary is below 25000 to 30000	
17.	<p>A. What is the difference between text files and binary files?</p> <p>B. Write a function in python to count the number of lines in a text file 'Country.txt' which are starting with an alphabet 'W' or 'H'.</p> <p>For example, If the file contents are as follows: Whose woods these are I think I know. His house is in the village though; He will not see me stopping here To watch his woods fill up with snow.</p> <p>The output of the function should be: W or w : 1 H or h : 2</p>	1+3=4

All the Best