 **Indian School Al Wadi Al Kabir**

**Assessment – 1**

**INFORMATICS PRACTIES (Code: 065)**

CLASS : XI Max. Marks:70

Date: 29/09/2024 Time: 3 hours

**General Instructions:**

Please check this question paper contains 37 questions.

● All questions are compulsory.

● The paper is divided into 5 Sections- A, B, C, D and E.

● Section A consists of 21 questions (1 to 21). Each question carries 1 Mark.

● Section B consists of 7 questions (22 to 28). Each question carries 2 Marks.

● Section C consists of 4 questions (29 to 32). Each question carries 3 Marks.

● Section D consists of 2 questions (33 to 34). Each question carries 4 Marks.

● Section E consists of 3 questions (35 to 37). Each question carries 5 Marks.

● All programming questions are to be answered using Python Language only.

● In case of MCQ, text of the correct answer should also be written.

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|  | **SECTION A** |  |
| 1. |  Which of the following can be used as valid identifier(s) in Python?1. 4thSum
2. Total
3. Number#
4. Data
 | 1 |
| 2. |  Suppose list1 is [3, 4, 5, 20, 5, 25, 1, 3], what is list1 after list1.pop(1)?1. [3, 4, 5, 20, 5, 25, 1, 3]
2. [1,3,3, 4, 5, 20, 5, 25]
3. [3, 5, 20, 5, 25, 1, 3]
4. [1, 3, 4, 5, 20, 5, 25,]
 | 1 |
| 3. |  Which of the following is not an assignment operator?1. \*\*=
2. /=
3. = =
4. %=
 | 1 |
| 4. |  What will be the output of the following statement: print(4+3\*5/3-5%2)1. 8.5
2. 8.0
3. 10.2
4. 10.0
 | 1 |
| 5. |  \_\_\_\_\_\_ is the high-speed memory used in the computer.a. RAMb. Hard diskc. Cached. BIOS | 1 |
| 6. | Which of the following operator is Floor division?a. %b. / c. // d. \*\* | 1 |
| 7. | Consider a list L = [5, 10, 15, 20], which of the following will result in an error:a. L[0] += 3 b. L += 3 c. L \*= 3 d. L[1] = 45 | 1 |
| 8. |  Which of the following can add list of elements to a list?1. append()
2. extend()
3. add()
4. none of these
 | 1 |
| 9. | Which for loop statement will produce 5 odd numbers?a. for x in range(1,9,2): b. for x in range(1,10,2):c. for x in range(9, 1, -2): d. None of these | 1 |
| 10. | Which of the following is ranked from smallest to largest?a. KB, MB, TB, GBb. MB, TB, GB, KBc. GB, KB, MB, TBd. KB, MB, GB, TB | 1 |
| 11. |  How many time(s) the following loop will execute? for x in range(-6 , 3, 2): print(x, end=” ”) a. 6 b. 4 c. 5 d. 7 | 1 |
| 12. | By default the input() function returns a. Integer b. Float c. Boolean d. String | 1 |
| 13. | Predict the output of the following code:LIST1 = [4,5,3,4,6,5,7,4,3,8,9,4,5]print(LIST1.index(3) \* LIST1.count(5))a. 5b. 15c. 9d. 6 | 1 |
| 14. |  Which one of the following is not an application software package?  a. Open Office b. Microsoft Office c. Adobe Pagemaker d. Ubandu | 1 |
| 15. |  Write the output of the following Python expression: print (( 4>5) or (2 != 1) and ( 4<9 ))1. True
2. False
3. None
4. Error
 | 1 |
| 16. |  Identify the output of the following Python statements. x = [ [10.0, 11.0, 12.0] , [13.0, 14.0, 15.0] ] y = x[1][2] print(y)a. 12.0b. 13.0c. 14.0d. 15.0 | 1 |
| 17. | Identify the output of the following Python statements.x = 2while x < 9: print(x, end='') x = x + 1a. 12345678b. 123456789c. 2345678d. 23456789 | 1 |
| 18. |  Which of the following is not a token?  a. // b. X c. ## d. 23 | 1 |
| 19. |  Antivirus is a type of which software? a. Application software b. Utility Software c. System Software d. Firmware |  |
| 20 |  The \_\_\_\_\_\_\_\_\_\_ function arrange the elements of a list in an ascending or  descending order. a. reverse() b. sort() c. insert() d. pop() |  |
| 21. |  Which of the following is not an output device? a. Dot matrix printer b. VDU c. Mouse d. Plotter |  |
|  | **SECTION B** |  |
| 22. | Rewrite the following code after correcting the errors.x=int(input(“Enter a number”))if x % 2=0: print (x, “is even”)else if x<0: print ( x, “should be positive”)else; print (x “is odd”) | 2 |
| 23. | What is the difference between interpreter and compiler ? | 2 |
| 24. |  What will be the output of the following statements? list1 = [1,2,3,4,5,6,7,8,9,10] print(list1[ : :-2]) print(list1[ : 3] + list1[ 3 : ]) | 2 |
| 25. |  Find the output of the following code.c=0for i in range(5): if(i%2==0): c=c+2 if(i%4==0): c+=3print(c) | 2 |
| 26. |  Find the output of following:  colours = ["violet", "indigo", "blue", "green", "yellow", "orange", "red"]  del colours[4]  colours.remove("blue")  colours.pop(3)  print(colours) | 2 |
| 27. | Write two differences in the LIST functions , pop() and remove() . | 2 |
| 28. |  What will be the output of the following code ?a, b, c=12, 15, 16b, c, a = a+b, b//3, c%5b=b+5c=c\*3print(a, b, c, sep=’ $ ’ , end = ‘#’) | 2 |
|  | **SECTION C** |  |
| 29. | Write the most appropriate list method to perform the following tasks in the list L=[4,6,2,4,8,9,2,1,5,4,7,8,9]1. Get the position of the element 8 in the list L.

ii) Delete the 6th element from the list L.iii) Add the element 6 at the end of the list L. iv) Add the element 3 in the index 5 of the list L. | 3 |
| 30. | Find the output of the following program:L= [34,54,67,21,91,26,45,11]L[1]=L[2]+L[4]L.insert(2,45)print(L)del L[3:6]print(L)L.insert(20,6)print(L) | 3 |
| 31. | What will be the output of the following code?L=[10,20]L1=[30,40]L2=[50,60,70]L.append(L1)L.extend(L2)L.pop( )print( L) | 3 |
| 32. | Define the following:1. Device Drivers
2. Primary memory
3. Application Software
 | 3 |
|  | **SECTION D** |  |
| 33. |  a. Write a program to print the first 10 Fibonacci numbers. b. Write a program to find the sum of the series s= x2/4 + x4/6 + x6/8 + …..xn/n+2 where x and n are entered by the user | **4** |
| 34. | A company decided to give bonus to employee according to following criteria-Time period of service BonusMore than 10 Years 10% of salary>=6 and <=10 8% of salaryLess than 6 years 5% of salaryAsk user for their salary and years of service and calculate and print the bonus amount and total salary (salary+bonus)  | 4 |
|  | **SECTION E** |  |
| 35. |  a. Write a program to input a number and find the sum of its digits. b. Write a program to input a number and check whether it is a perfect number  or not. |  5 |
| 36. | a. Write a program to input a list of ‘n’ elements and find the sum of all  elements ending with 7 .  b. Write a program to input ‘n’ elements to a list L and replace every even  elements with half its value and every odd number with three times its value. |  5 |
| 37. | a. Write a program to input ‘n’ elements in to a list L1 and find and display the  greatest and smallest in the list.b. Write a program to input ‘n’ elements to a list and count the number of  elements divisible by 3 or 5. | 5 |