## विद्या सर्वार्थ साधिका

## ANANDALAYA

## PERIODIC TEST -2

Class: XI

Subject: Computer Science. MM :70
Date : 22-09-2023 Time: 3 Hours.

## General Instructions:

- 1. Please check this question paper contains 35 questions.
- 2. The paper is divided into 4 Sections- A, B, C, D and E.
- 3. Section A, consists of 18 questions (1 to 18). Each question carries 1 Mark.
- 4. Section B, consists of 7 questions (19 to 25). Each question carries 2 Marks.
- 5. Section C, consists of 5 questions (26 to 30). Each question carries 3 Marks.
- 6. Section D, consists of 2 questions (31 to 32). Each question carries 4 Marks.
- 7. Section E, consists of 3 questions (33 to 35). Each question carries 5 Marks.
- 8. All programming questions are to be answered using Python Language only.

| SECTION A |   |  |   |                   |     |  |  |  |
|-----------|---|--|---|-------------------|-----|--|--|--|
| 1.        | Which of the following $i = 1$ while True:<br>if $i\%2 == 0$ :<br>break<br>print(i, end='')<br>i += 2   | ng option shows the ou                     | tput generated by the                       | code given below: | (1) |  |  |  |
|           | (A) 1   | (B) 1 2                                    | (C) 1 2 3 4 5 6.                            | (D) 1 3 5 7 9 11  |     |  |  |  |
| 2.        | Which of the following $x = ['ab', 'cd']$ for i in x: $x.append(i.upper())$ $print(x)$ (A) ['AB', 'CD'].  | ng option shows the ou                     | tput generated by the (B) ['ab', 'cd', 'AB' |                   | (1) |  |  |  |
|           | (C) ['ab', 'cd'].   |  | (D) none of the mentioned                   |                   |     |  |  |  |
| 3.        | Which one of the following have the highest precedence in the expression?  (A) Exponential (B) Addition (C) Multiplication (D) Parentheses  |  |   |                   |     |  |  |  |
| 4.        | Operators with the same precedence are evaluated in which manner?  (A) Left to Right (B) Right to Left (C) Can't say (D) None of the mentioned  |  |   |                   |     |  |  |  |
| 5.        | Which of the followin (A) my_string_1   | ng is an invalid variabl<br>(B) 1st_string | e?<br>(C) foo                               | (D) _             | (1) |  |  |  |
| 6.        | •   | used in computer for (B) 9's complement    |   | (D) None of above | (1) |  |  |  |
| 7.        | How many bits are re (A) 8  | presented in one byte? (B) 16              | (C) 64                                      | (D) 256           | (1) |  |  |  |
| 8.        | Number of is dependent on the number of conditions to be checked. If the first condition is false, then the next condition is checked, and so on.  (A) elese if (B) if else (C) elif (D) All of the above |  |   |                   |     |  |  |  |

| 9.  | (A) Indentation (B) Reper  |  | (C) Code                              | (D) None of the above  | (1) |  |  |
|-----|--|--|---------------------------------------|------------------------|-----|--|--|
| 10. | Which of the following is not a (A) for loop (B) do-w  | • •  | ?<br>(C) while loop                   | (D) None of the above  | (1) |  |  |
| 11. | The statements within the body   | e statements within the body of the must ensure that the condition eventually comes false; otherwise, the loop will become an infinite loop, leading to a logical error in |                                       |                        |     |  |  |
|     | (A) For loop (B) While   | e loop   | (C) Do-While loop                     | (D) None of the above  |     |  |  |
| 12. | What is a variable defined outsi (A) local variable (B) globa  | de a function<br>Il variable   | n referred to as? (C) static Variable | (D) automatic variable | (1) |  |  |
| 13. | What is the output of the progra<br>(A) a (B) A  | m code :   | print(chr(ord(chr(C) 97               | (97)))) ?<br>(D) error | (1) |  |  |
| 14. | <ul> <li>Which one of the following is incorrect?</li> <li>(A) The variables used inside function are called local variables.</li> <li>(B) The local variables of a particular function can be used inside other functions, but these cannot be used in global space</li> <li>(C) The variables used outside function are called global variables</li> <li>(D) In order to change the value of global variable inside function, keyword global is used.</li> </ul> |  |                                       |                        |     |  |  |
| 15. | Which command is used to add (A) L1.add(4) (B) L1.ap   | an element   |                                       | (D)None of the above   | (1) |  |  |
| 16. | What is the index value of 'i' ir (A) 5 (B) 3  | n string "Lea  | rning"?<br>(C) 6                      | (D) 7                  | (1) |  |  |
|     | Q17 and 18 are Assertion and Reasoning based questions. Mark the correct choice as (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   |  |                                       |                        |     |  |  |
| 17. | Assertion (A): If the arguments in function call statement match the number and order of arguments as defined in the function definition, such as arguments are called positional arguments.  Reasoning (R): During a function call, the argument list first contains default argument(s) followed by positional argument(s).  |  |                                       |                        |     |  |  |
| 18. | Assertion(A): A function is a block of organised and reusable code that is used to perform a single related action.  Reasoning (R): Function provides better modularity for your application and a high degree of code reusability.  |  |                                       |                        |     |  |  |
|     |  |  | CTION B                               |                        |     |  |  |
| 19. | Rewrite the following code in P correction done in the code:<br>a = int(input("Value:"))<br>b = 0<br>for c in range(1,a,2)<br>b + = c<br>if $c\%2 = 0$ :<br>Print (c*3)<br>Else:<br>print (c*) print (b)   | ython after i  | emoving all syntax er                 | ror(s). Underline each | (2) |  |  |

20. Rewrite the following code in Python after removing all syntax error(s). Underline each (2) correction done in the code: Def checkNumber(N): status = N%2return #main-code num=int( input(" Enter a number to check :)) k=checkNumber(num) if k = 0: print("This is EVEN number") else print("This is ODD number") Rewrite the following code in Python after removing all syntax error(s). Underline each (2) correction done in the code: "HELLO"=String for I in range(0,len(String)–1) if  $String[I] \Rightarrow "M"$ : print(String[I], "\*" Else: print(String[I-1]) The code given below accepts a number as an argument and returns the reverse number. Observe the following code carefully and rewrite it after removing all syntax and logical errors. Underline all the corrections made. define revNumber(num): rev = 0rem = 0While num > 0: rem==num %10 rev=rev\*10 + remnum = num //10return rev print(revNumber(1234)) = operator is different than = = operator? 23. How (2) 24. What is the use of break and continue statement? (2) 25. List relational operators available in python. (2) SECTION C 26. Predict the output of the Python code given below: (3) def Changer(P,Q=10): P=P+QO=P-O return P A = 100B = 20A=Changer(A,B) print(A,B,end="\$") B=Changer(B) print(A,B, end="\$")

Predict the output of the Python code given below: (3) Text1="CHANDRAYAN-3" Text2="" I=0while I < len(Text1): if Text1[I]>="0" and Text1[I]<="9": Val=int(Text1[I]) Val=Val+1 Text2=Text2+str(Val) elif Text1[I] >= "A" and Text1[I] <= "Z": Text2=Text2 + (Text1[I+1])else: Text2=Text2+"#" I+=1print(Text2) 28. Predict the output of the Python code given below: (3) text="Gmail@com" L=len(text) ntext="" for i in range(0,L): if text[i].isupper(): ntext=ntext+text[i].lower() elif text[i].isalpha(): ntext=ntext+text[i-1].upper() else: ntext=ntext+'xx' print(ntext) Can arithmetic operators be used with strings in Python? Which arithmetic operators can be (3) used with strings? Explain with the help of example. 30. Differentiate between for loop and while loop in python. (3) **SECTION-D** Convert the following binary numbers to hexadecimal number: (4) 1101010 2 1001110 2 (I)(III)1101011 2 (IV) 1111111 2 (II)Convert the following Decimal numbers to Octal number: (4) (III)(I)25 10 93 10 (II)56<sub>10</sub> (IV) 89 10 **SECTION-E** Write the definition of a Method MSEARCH(STATES) to display all the state names from a (5) list of STATES, which are starting with alphabet M. For example: If the list STATES contains ["MP',"UP","MH","DL","MZ","WB"] The following should get displayed MP MH MZ Write a Python Program to find the sum of a Series  $\frac{1}{1!} + \frac{2}{2!} + \frac{3}{3!} + \frac{4}{4!} \dots + \frac{n}{n!}$ (5) Write a python program to read a line of text and display all the words starting with letter 35. (5)