THE VILLAGE INTERNATIONAL SCHOOL
"We Nurture Dreams"

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| **Date:12/02/2023**<br>**GRADE: XI** | **ANNUAL EXAMINATION-2023-24**<br>**COMPUTER SCIENCE(083)** | **Max marks:70**<br>**Time: 3 Hour** |

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| | **SECTION A** | |
| 1. | --------- statement that takes the control out of the loop.<br>a. break<br>b. continue<br>c. pass<br>d. jump | 1 |
| 2. | IDLE stands for …… …… | 1 |
| 3. | Which of the following cannot be a variable?<br>a. _init<br>b. in<br>c. it<br>d. on | 1 |
| 4. | What will be the output of the code:<br>>>> s="i love my country"<br>>>> r = "i love my class"<br>>>> s[2:6] + r[-7:]<br><br>a. 'loveyclass'<br>b. 'lovey class'<br>c. 'loveclass'<br>d. 'love class' | 1 |
| 5. | What will be the output of the following expression?<br>print( 95//3**2**2+12-3%2)<br>a. 12<br>b. 14<br>c. 11<br>d. 10 | 1 |
| 6. | To create an empty dictionary we use .<br>a) d={} b) d=[] c) d=() d) d=={} | 1 |

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| 7. | Consider a list L = [5, 10, 15, 20], which of the following will result in an error:-<br>a. L[0] += 3<br>b. L += 3<br>c. L *= 3<br>d. L[1] = 45. | 1 |
| 8. | What will be the output of the following Python code?<br>str1 = "Be Honest"<br>for i in str1.split('e'):<br>print(i, end="& ")<br><br>a. Be&Honest&<br>b. B&e& Honest&<br>c. B& Hon&st&<br>d. Be& Hone&st& | 1 |
| 9. | Decimal equivalent of the Hexadecimal no 2C is _____<br><br>a. 33<br>b. 34<br>c. 44<br>d. 43 | 1 |
| 10. | Using someone else's facebook handle to post something will be termed as :<br>a) Fraud b) Identity theft c) Online stealing d)Violation | 1 |
| 11. | What is the output of math.ceil(8.4) ?<br>a) 9 b)4 c)4.0 d)5.0 | 1 |
| 12. | By default the input() function returns<br>a. Integer<br>b. Float<br>c. Boolean<br>d. String | 1 |
| 13. | A.A'= _____<br><br>a. A'<br>b. 0<br>c. 1<br>d A | 1 |
| 14. | Write the output of the following code :<br>>>>L=["Amit","Sumit","Naina"]<br>>>>print(L[-1][-1])<br>a. [Naina]<br>b. [a]<br>c. a<br>d. None of the above | 1 |

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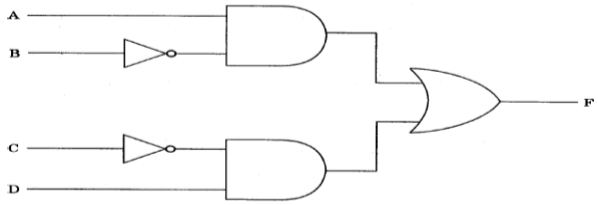
| 15. | Which of the following logic expression represents the logic diagram given below?<br>  <br><br>a. (A+ B') (C'+ D)<br>b. AB'+ C'D<br>c. (AB)'+ ( CD)'<br>d. A'B+CD' | 1 |
| 16. | Which of the following is valid identifiers: (1)<br>a. File.dat<br>b. For<br>c. _if<br>d. elif | 1 |
| | Q17 and 18 are ASSERTION AND REASONING based questions. Mark the correct choice as<br>(a) Both A and R are true and R is the correct explanation for A<br>(b) Both A and R are true and R is not the correct explanation for A<br>(c) A is True but R is False<br>(d) A is false but R is True | |
| 17. | Assertion: Logical errors occurs when the logic is not specified properly.<br>Reason: If the logical error occurs program gives wrong output. | 1 |
| 18. | Assertion: Items in dictionaries are unordered.<br>Reason: You may not get back the data in the same order in which you had entered the data initially in the dictionary. | 1 |
| | **SECTION B** | |
| 19. | Rewrite the following code in Python after removing all syntax error(s). Underline each correction done in the code.<br><br>for x in range(1,4)<br>for y in range(2,5):<br>if (x*y>10:<br>break;<br>print("The result is,x*y") | 2 |

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| 20 | What will be the output of the following string operation?<br>a.<br>`Str="python"`<br>`for i in Str:`<br>`  print(i,end="")`<br>b.<br>`Str="python"`<br>`for i in Str:`<br>`  if i =='t':`<br>`  continue`<br>`  print(i,end="")` | 1+1 |
| 21 | Draw a flowchart for finding the sum of n numbers. | 2 |
| 22. | Explain Keyword and Identifier with examples | 2 |
| 23. | a) Define digital footprint and its types.<br>b) Define copyright. | 1+1 |
| 24. | Write a python program to print the pattern.<br>*<br>**<br>***<br>**** | 2 |
| 25. | a) Write a program to remove an element 'Hari' from the given Tuple.tuple1 = ("Malavika","Midhun","Hari","Priya","Meera")<br>**OR**<br>b) Predict the output<br>L=['a','b','c','d']<br>print(L)<br>L[1]='X'<br>L[3]='Z'<br>print(L)<br>c) L=['a','b','c','d']<br>L[0:2]=['x','y']<br>print(L) | 2 |
| | **SECTION C** | |

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| 26. | Prove the following with the help of a truth table:<br>X.(Y+Z)=(X.Y)+(X.Z) | 3 |
| 27. | a. What is the output of “class”+1+2+3?<br>b. What happens when ‘1’==1 is executed?<br>c. What will be the output of “Hello”.replace(“l”,”e”))?<br>**OR**<br>d. Create a dictionary named D1 the keys are January, February, March, April and values are 31,28,31,30 then create one more dictionary named Wk the keys are Monday, Tuesday, Wednesday, Thursday with values as 2,3,4,5 then update Wk with D1. | 3 |
| 28. | a) Predict the output of the Python code given below:<br>X=(1,2,3,4,5,3,2,1,3)<br>Y=X*2<br>Z=(“Bye!”)*4<br>print(Y)<br>print(Z)<br>print(4 in X)<br>print(len(X))<br>print(X.count(3))<br>**OR**<br>b)Explain cyber crime and cyber bullying with example. | 3 |
| 29. | Write the output of the following when Num1=4 and Num2=3 and Num3=2<br>a. Num1=4<br>Num2=Num1+1<br>Num1=2<br>print(Num2,Num1)<br>b. Num1=Num1**(Num2+Num3)<br>print(Num1)<br>c. Num1=2+9*((3*12)-8)/10<br>print(Num1) | 3 |

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| 30. | Consider the list L=['I','N','F','O','R','M','A','T','I','C','P','R','A','C','T','I','C','E','S'] and predict the output.<br>a. print(L[:10:2])<br>b. print(L[::2])<br>c. print(L[2::3])<br>d. print(L[::])<br>e. print(L[1::-1])<br>f. print(L[1:-1:-2]) | 3 |
| | **SECTION D** | |
| 31 | Predict the output for the following<br>a.<br>A={1:1,2:2}<br>B=dict(A)<br>print(B)<br>b.<br>D={}<br>D[1]="One"<br>D[2]="Two"<br>D[3]="There"<br>D[4]="Four"<br>print(D)<br>c.<br>Dict={"Name":"Riya","Age":17,"Class":"XII"}<br>print("Dict[Name] : ",Dict[Name])<br>print("Dict[Age] : " ,Dict["Age"])<br>d.<br>D={1:"One",2:"Two",3:"Three",4:"Four"}<br>for i in D:<br>print(i,":",D[i])<br>e.<br>D1={"mon":"Monday","tue":"Tuesday","wed":"Wednesday"}<br>D1["thu"]="Thursday"<br>print(D1) | 5 |

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| 32 | Draw the following Logic Diagrams of a to c and convert d and e.<br><br>a. AB+B'C+C'A'<br>b. XY+XY'+X'Y<br>c. (XY')'+(Z'+W)<br>d. 345 Decimal to binary<br>e. 786 Decimal to Octal | 3+2 |
| 33. | 1.<br>a. What is the difference between del and pop() function?<br><br>Predict the output<br><br>b. L1=[1,5,3,7,9]<br>L1.insert(3,8)<br>print("After Insertion",L1)<br><br>c. L1= L=['a','b','c','d']<br>L1.reverse()<br>print("Reversed order",L1)<br><br>d. L4=["Delhi","Amster","Bangaluru","Chennai"]<br>L4.sort())<br>print("Strings in alphabetic order:",L4))<br><br>e. L1=[5,2,8,1,7,9,3]<br>L1.remove(8)<br>print("List after removing 8 is:",L1)<br><br>OR<br><br>2.<br>a. Write a program to input 5 numbers in to a list named 'L' and find the highest and lowest value from that list.<br><br>b. Write a program to input a string and convert the string into uppercase. | 1+4<br><br>OR<br><br>3+2 |
| **SECTION E** | | |

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| 34 | Find out the output of the following code:<br>a.<br><br>L1 = [100,900,300,400,500]<br>START = 1<br>SUM = 0<br>for C in range(START,4):<br>SUM = SUM + L1[C]<br>print(C, ":", SUM)<br>SUM = SUM + L1[0]*10<br>print(SUM)<br>b.<br>a=10<br>print (“a is”,a)<br>a=a+5<br>print(“now a is”,a)<br>a=a*2<br>print(“Current value of a is”,a)<br>a=43<br>b=33<br>print(“a is”,a,”and b is”,b) | 2+2 |
| 35<br>. | a. Write a python program to find a number is Armstrong or not.<br>OR<br>Write a program to find a number is palindrome or not. | 4 |
| | *****END**** | |