**INDIAN SCHOOL AL WADI AL KABIR**

Unit Test 2024-25

**SUB: Computer Science (083)**

CLASS : XI SET- I I Max. Mark: 30

Date: 04/06/2024 Time : 1 hour

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| *General Instructions:*  1. This question paper contains four sections, Section A to D.  2. All questions are compulsory.  3. Section A have 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 Long Answer type questions carrying 03 marks each.  6. Section D has 02 Long Answer type questions carrying 04 marks each.  6. All programming questions are to be answered using Python Language only. | | |
|  | **Question** |  |
| **Q. No.** | **SECTION - A** | **Marks** |
| 1 | The high speed memory placed between CPU and Primary Memory is \_\_\_\_\_\_\_\_\_\_\_   1. Cache 2. Registers 3. Secondary memory 4. None of the above | (1) |
| 2 | Which of the following is a valid identifier?  a) class room  b) False  c) class$  d) bookstore123 | (1) |
| 3 | \_\_\_\_\_\_\_\_\_ & \_\_\_\_\_\_\_\_\_\_ are called universal gates.   1. AND & OR 2. NAND & OR 3. OR & NAND 4. NAND & NOR | (1) |
| 4 | Find out the correct option using truth table.  X + XY = \_\_\_\_\_\_\_\_\_\_\_\_   1. X + Y 2. Y ( X + XY ) 3. Y ( X + Y ) 4. X ( X + XY ) | (1) |
| 5 | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is an example/s for a customized software.   1. Mozilla Firefox 2. GIMP 3. School ERP 4. All the above | (1) |
| 6 | Write the python expression for the following code.  (a+b)2/(a2+b)   1. (a+b\*2)/(a\*\*2+b) 2. ((a+b)\*\*2)(a\*\*2+b) 3. ((a+b)\*2)/(a\*2+b) 4. ((a+b)\*\*2)/(a\*\*2+b) | (1) |
| 7 | Hard Disk Drive is an example for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   1. Primary Memory 2. Secondary Memory 3. Cache Memory 4. RAM | (1) |
| 8 | A \_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a language translator which moves on to the next line for execution only after the removal of the error.   1. Compiler 2. Interpreter 3. Assembler 4. None of the above | (1) |
| 9 | Evaluate the expression.  12 % 3 \*\* 4 // 5 + 6   1. 8 2. 8.0 3. 7   d. 7.0 | (1) |
| 10 | Which of the following logic expression represents the logic diagram given below?     1. F = AB’ + A’C 2. F= A’B + AC’ 3. F = AC’ + AB’ 4. F = AB’ + AC’ | (1) |
|  | **SECTION – B** |  |
| 11 | What will be the output of the given python statement?   1. print('Arun','Manoj','Sandeep', sep='@', end='!!!')   Arun@Manoj@Sandeep!!!   1. a)5\*\*2 25   b)17//4 4 | (2) |
| 12 | What will be the output?   1. >>> num1 = 10   >>> num2 = 2  >>> num1 >= 10 or num2 >= 10 and num1==5  True     1. >>> num1,num2 = 10, 0   >>> not (num1 = = 20)  True | (2) |
| 13 | Rewrite the following code by correcting the errors.  M = int(input("Enter a Value? "))  if M % 3 = = 0:  Res = M \* 16  else:  Res +=M  print("RESULT = " , Res) | (2) |
|  | **SECTION - C** |  |
| 14 | 1. List out any four functions of Operating System   Process management, File management, Memory management & Device management   1. Do the following conversions.   1. (125) 10 = (1111101) 2  2. (11001) 2 = (25) 10 | (3) |
| 15 | 1. Find the output.   a=8  b=15  a+=a+b  b\*=a+b  print(a,b)  31 690   1. Find the output of the following code:   a, b, c, d = 100, 30, 1, 500  for i in range (50, b, -15):  d = d + a \* c  c = c + 1  print(“Result 1 = ”, c)  print(“Result 2 = “, d)  Result 1 = 3  Result 2 = 800   1. What will be the output of the following code?   M=0  for x in range(15,50):  if x % 5==0:  M=M+ x  print('Answer : ', M)  Answer : 210 | (3) |
|  | **SECTION - D** |  |
| 16 | 1. Write a Python program to input the sales amount and calculate the commission as per the following criteria:   Salesamt Commission  More than 30000 25 % of salesamt  Between 25000 & 30000 20 % of salesamt  Between 15000 & 24999.9 15 % of salesamt  Between 5000 and 14999.9 10 % of salesamt  Less than 5000 No commission  amt=float(input("Enter the amount:"))  if amt>30000:  print("Commission=",amt\*25/100)  elif amt>=25000 and amt<=30000:  print("Commission=",amt\*20/100)  elif amt>=15000 and amt<=24999.9:  print("Commission=",amt\*15/100)  elif amt>=5000 and amt<=14999.9:  print("Commission=",amt\*10/100)  else:  print("No commission") | (4) |
| 17 | 1. Write a program to check whether the number entered by the user is a prime number or not using for loop.   n= int(input("enter the number:"))  for i in range(2,n):  if n%i==0:  print(n, "is not a prime number")  break  else:  print(n, "is a prime number")   1. Write a program to find the sum of even numbers and odd numbers separately in the range 100 to 500 using for loop.   even=0  odd=0  for i in range(100,501):  if i%2==0:  even=even+i  else:  odd=odd+i  print("Sum of even numbers:",even)  print("Sum of odd numbers:", odd) | (4) |