**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 + 61. 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==5True 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 \* 16else: Res +=Mprint("RESULT = " , Res) | (2) |
|  |  **SECTION - C** |  |
| 14 | 1. List out any four functions of Operating System

Process management, File management, Memory management & Device management1. Do the following conversions.

1. (125) 10 = (1111101) 22. (11001) 2 = (25) 10 | (3) |
| 15 | 1. Find the output.

a=8b=15a+=a+bb\*=a+bprint(a,b)31 6901. Find the output of the following code:

a, b, c, d = 100, 30, 1, 500for i in range (50, b, -15): d = d + a \* c c = c + 1print(“Result 1 = ”, c)print(“Result 2 = “, d)Result 1 = 3Result 2 = 8001. What will be the output of the following code?

M=0for 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 salesamtBetween 25000 & 30000 20 % of salesamtBetween 15000 & 24999.9 15 % of salesamtBetween 5000 and 14999.9 10 % of salesamtLess 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") breakelse: 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=0odd=0for i in range(100,501): if i%2==0: even=even+i else: odd=odd+iprint("Sum of even numbers:",even)print("Sum of odd numbers:", odd) | (4) |