Time: 3 Hrs   **M.M: 70**
INSTRUCTIONS:
  1. **Question no 1 to 18 are 1 mark each.**
  2. **Question no 19 to 25 are 2 marks each.**
  3. **Question no 26 to 30 are 3 marks each.**
  4. **Question no 31 to 32 are 4 marks each.**
  5. **Question no 33 to 35 are 5 marks each.**

Question no 1 to 18 are 1 mark each.

Q.1 Find the valid keywords from the following (more than option can be chosen)
      A. none   b. for   c. my_name   d. int

Q.2 Identify the invalid identifier-
      a. true   **b.** if   **c.** If   **d.** While

Q.3 Which of the following option is correct?
        a. The CPU is the calculating device .
        b. The memory is of three type : RAM, ROM and secondary .
        c. The Control Unit affects speed of computer system.
        d. The ALU is the calculating device .

Q.4 What will be the output after the following statements?
    x = 40
    if x > 10:
         print(300)
      elif x == 140 :
         print(400)
      a. 200   b. 400   c. 10   d. 300

Q.5 Which of the following statement is the biggest unit of storage:
    a) Giga Byte   b) Mega Byte   c) Tera Byte   d) Zeta Byte

Q.6 Which of the following operator cannot be used with float data type?
    a. +   b. in   c. /   d. //
  Q.7 a Nibble is of-
        a. 8 bits   **b.** 5 bits   **c.** 2 bits   **d.** 4 bits
  Q.8 Which of the following is correct for OS?
        a. Operating Software   c . Operation System
        b. Operating System   d. Operation Software

Q.9 What will be the correct statement:
    To check if a is greater than b, if so, check if a is divisible by 5.
      a. If a < b :   b) if a >= b :   c) if a > b :
        If a % 5 ! = 0   if a % 5 ==0   if a % 5 == 0

Q.10 The default type of the input() function is:

  a. String   b. integer   c. void   d. float

Q.11 What type of statement is this?

  if (True) :

a. empty if   b. One time if   c.selection construct   d. Evergreen if

Q.12 This memory is in which data is filled by the manufacturer and the user can not store anything inside it, is called .

  a) Cache memory   b) Read Only Memory   c) Secondary Memory   d) Random access Memory

Q.13 Which of the following is not a type of computer language :

     a. High Level Language   c. Machine Language
     b.Object Language   d. Assembly Language

Q.14 Which one of the following is the default extension of a PYTHON file?

  a. .exe   b. .p++   c. .py   d.   .pye

Q.15   if True:

         print("Hello")   will print-
     a. No output   **b.** Error   **c.** Hello   **d**. None of these

Q.16 Write the full forms of the following: (i) MICR   (ii) BIOS

Q.17 Which of the following can be categorized as a SELECTION CONSTRUCT ?

  a) if -- else   b) if -- elif – else c) nested if – else   d) all of the above

Q.18 Two modes of python programming ?

  a) IDLE , script   b) Interactive , program
  c) editor, script   d) all of the above

Question no 19 to 25 are 2 marks each.

Q.19 Write Python expressions to represent the following

  a. Find the integral part of the quotient when 63 is divided by 29.

  b. Add remainder of 6/5 to the product of 6 and 5.

Q.20 Evaluate the following:

  a) 6 * 3 + 4**2 // 5 – 8

  b) 10 > 5 and 7 > 12 or not 18 > 3

Q.21 Differentiate between system software and application Software with the help of example.

Q.22 What do you understand by the IPO ? explain.

Q.23 Write a script to input a number and check whether it is odd or even , for even number, print its square, for odd number, print the cube

Q.24 Differentiate between if – else and if – elif construct , with the help of example.

Q.25 Differentiate between **and** and **or** operator, with example.

Question no 26 to 30 are 3 marks each.

Q.26 What do you understand by identifiers in a program ? what are the different type of identifiers and keywords that you may find in a program ? explain.

Q.27 Write a note on LANGUAGE TRANSLATORS . What are the different type of language translators available , explain each one of them.

Q.28 What are the three type of operators being used in a PYTHON Program, explain with the help of an example.

Q.29 What will be the output after the following statements?Also identify the construct being used .

```
1. n1=n2=12/5
        if int(n1)==n2:
            print("Integer")
        else: print("Non integer")
2. age=12
        if not age<18:
            print("Eligible to vote")
        else:
            print("Not eligible to vote")
```

Q.30 Following code is meant to be an interactive grade calculation script for an entrance test that converts from a percentage into a letter grade:

        90 and above is A+
        80-90 is A
        60-80 is A-,
        And everything below is fail(U know high standard).

The program should prompt the user 100 times for grades. Unfortunately, the program was written by a terrible coder(me:/), so there are numerous bugs in the code. Find all the bugs and fix them.

        For i: range(1..100)
                Grade= = float(input("What\'s the grade percentage?"))
                If grade >90
                        Print("That's an A+!")
                if 80>grade>90:
                        print(" " " An A is really good!" " ")
                elsif 60<grade:
                        print(you got an A-!)
                else grade<60:
                        print("sorry, you are not qual;ify!")

Question no 31 to 32 are 4 marks each

Q.31 Differentiate between :

   a. sep and end with print( )   b. operators **and** and **or**

 Q.**32** Perform the following- conversions-

   a. 10 GB=_____ MB=_____bytes

   b. 5 MB=_____ KB

   c. 5 KB=_____ bytes:

Question no 33 to 35 are 5 marks each.

Q.33 Write a program to make a number generator, let the user enter single digit numbers and print the number generated , each time entering a new number with the newly entered number , placed on the one's place. The process should repeat till the user enters 0.

    eg: input :   input the number : 5
         output :   the new number is : 5
                       input another number : 3
         output :   the new number is : 53
                       input another number : 7
       output :   the new number is : 537

Q.34 Write a Python program that reads the current date from the user and prints it in the
following format :   (3)
Input : enter the date :   23
      Enter the month : 4
      Enter the year : 2022
Output : the date is   : 23 rd APRIL 2022

(ii) Write a program to input a number from the user and print if it is a prime number or not.2

Q.35 a. Find error(s), if any, in each of the following function calls: 2
    (i) int('5six')   (ii) int ("fifty 6")   (iii) int(5/4)   (iv) input (enter a number :)

b. Predict the output for the following code fragment :Also explain the generated output   2
     print (5, 9,"MOHAN \t",18.97,"GUPTA",sep = "$")
c. What do you understand by integer and string data type ?   1