## PRE FINAL  - 1
### Class: XII Session: OCTOBER 2021-22
### Computer Science (Code 083)
### (Theory: Term-1)

**Maximum Marks: 35**                                    **Time Allowed: 90 Minutes**

**General Instructions:**

• **The question paper is divided into 3 Sections - A, B and C.**

• **Section A, consist of 25 Questions (1-25). Attempt any 20 questions.**

• **Section B, consist of 24 Questions (26-49). Attempt any 20 questions.**

• **Section C, consist of 6 case study-based Questions (50-55). Attempt any 5 questions.**

• **All questions carry equal marks.**

| QNO | SECTION -A |
|---|---|
| | **This section consists of 25 Questions (1 to 25). Attempt any 20 questions from this section. Choose the best possible option.** |
| 1 | Which amongst the following is a mutable data type in Python ? <br> a) Int       b) String    c) tuple     d) list |
| 2 | Which is the correct form of declaration of dictionary ? <br> a) Day={1:'Monday', 2:'tuesday', 3:'wednesday'} <br> b) Day={1;'Monday', 2;'tuesday', 3;'wednesday'} <br> c) Day=[1:'Monday',2:'tuesday',3:'wednesday'] <br> d) Day={1'Monday', 2'tuesday', 3'wednesday'} |
| 3 | What will be the output of the following code <br> rec={"Name": "python", "Age": "20"} <br> r=rec.copy() <br> print(id(r )==id(rec)) <br> a) True            b) False    c) 0        d) 1 |
| 4 | What is the length of the tuple shown below ? <br> T=(((('a',1),'b','c'),'d',2),'e',3) |

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| | a) 1  b) 3  c) 4  d) 8 |
| 5 | Name the module to which following function belong   fabs()<br>    a)  CSV   b)  math    c) random   d) cmath |
| 6 | What  does  the  following  code  will  print:<br>Fn  =  open("poem.txt  ,  "w")<br> print(Fn.read(5))<br> a) Prints  5  bytes  from  the  beginning<br> b) Prints  5  bytes  from  current  position<br> c) Error<br> d) File  can't  be  opened |
| 7 | Write  a  statement  to  send  the  file  pointer  position  10  bytes  forward  from  current  location  of  file  ,  consider  fp  as  file  object.<br>    a)  fp.seek(10)   b) fp.seek(10,1)  c) fp.tell(10)  d) fp.seek(1,10) |
| 8 | File  =  open("Mydata","a")<br><br>  _____<br> File.close()<br> Fill  the  blank  in  above  code  to  write  Text  "ABC"  in  the  file  "Mydata"<br>    a)  File.write('ABC')        b) File.dump('abc')<br>    c) File.writerow("ABC)     d) File.write('abc') |
| 9 |  Which of  the  following  is  valid  logical  operator<br>(i)  &&       (ii)  >       (iii)  and       (iv)  == |
| 10 | Identify  the  correct  option  to  print  the  value  80  from  the  list  L=[10,20,40,80,20,5,55]<br> (i)  L[80]     (ii)  L[4]      (iii)  L[L]      (iv)  L[3] |
| 11 | The  values  being  passed  through  a  function  call  statements  are  called<br> a)  Actual  parameter     b)  Formal  parameter<br>c) deafault parameter     d)  None  of  these |
| 12 | What  is  the  output  produced  by  the  following  code  –<br>d1={5:[6,7,8],"a":(1,2,3)}<br> print(d1.values())<br>    a)  { (1,2,3) , [6,7,8] }   b) [[6,7,8],(1,2,3)]<br>    c)[6,7,8,1,2,3]         d) (5, "a") |

| 13 | What output will display of print(M[-5:]) from M=[12,43,-4,-5,6,8,12,9]<br>   a) -5  b) 12  c) 9  d) -4 |
|---|---|
| 14 | Which of the following is not a valid identifier:<br>(i) finally   (ii) false   (iii) my_sql   (iv) with |
| 15 | Which method can be used to remove any whitespace from both the beginning and the end of a string?<br>  (i) trim()   (ii) ptrim()   (iii) strip()   (iv) len() |
| 16 | Which of these about a dictionary is false?<br>(i) The values of a dictionary can be accessed using keys.<br>(ii) The keys of a dictionary can be accessed using values.<br>(iii) Dictionaries aren't ordered.<br> (iv) Dictionaries are mutable. |
| 17 | Which of the following is the use of id() function in python?<br>(a) id returns the identity of the object<br>(b) Every object doesn't have a unique id<br>(c) Both (a) and (b)<br>(d) None of the above |
| 18 | What is the output of given program code:  list1 = range(100, 110)<br> print( list1.index(105))<br>(a) 4    (b) 5    (c) 6    (d) Error |
| 19 | To open a file c:\ss.txt for appending data, we use<br>i. file = open("c:\ \ss.txt", "a")<br>ii. file = open("c:\ \ss.txt", "rw"<br>iii. file = open(r"c: \ss.txt", "a")<br>iv. file = open(file = "c:\ss.txt", "w")<br>v. file = open(file = "c:\ \ss.txt", "w")<br>vi. file = open("c:\ res.txt")<br>a) c, d    b) b, d    c) a, c    d) a, d |
| 20 | Write order of precedence of following operators in decreasing order.<br> i) and  ii) not  iii) **  iv) / |
| 21 | whichofthefollowingisaninvalidstatement?<br>a)abc=1,000,000<br>b)abc=100020003000 |

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| | c)a,b,c=1000,2000,3000<br>d)a_b_c=1,000,0000 |
| 22 | If a=[5,4,3,2,2,2,1],evaluate the following expression:<br>print(a[a[a[a[2]+1]]])<br>   a) 1  b) 2  c) 3  d) 4 |
| 23 | Which of the following is the correct form of using dict()?<br>a)>>>dict([('a',45),('b',78)])       b)dict({'a':45,'b':78})<br>c)dict('a'=45,'b'=78)          d)Allofthes |
| 24 | Suppose a tuple T is declared as T = (10, 12, 43, 39), which of the following is incorrect?<br>a) print(T[1])     b) T[2] = -29     c) print(max(T)) d) print(len(T)) |
| 25 | Which of the is an example of mutable data type<br> (a) String (b) List  (c) tuple  (d) None of these |
| | <div align="center">**Section-B**</div> |
| | **This section consists of 24 Questions (26 to 49). Attempt any 20 questions** |
| 26 | Find the output of following code:<br>Fp = open("Demo.txt","r")<br>print(Fp.read(20))<br>print(Fp.read(10))<br>print("pointer is at" Fp.tell())<br>   a) 20  b) 30  c) 10  d) beginning of the file |
| 27 | What is the output of the following code?<br>X = "abcdef"<br>i = "i"<br>while i in x:<br>   print(i, end = " ")<br>   a) a b c d e f  b) abcdef  c) i i i i i . . . . .  d) no output |
| 28 | What is the value of the expression 10 + 3**3 * 2?<br>28  b. 739  c. 829  d. 64 |
| 29 | What does the following python code display?<br>          x = 3<br>          if x== 0:<br>             print("Am I here",end =" ")<br>          elif x == 3:<br>             print("or here?", end = " ")<br>          else: |

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| | print("Bye")<br>a) Am I here ?       b. Or here?<br>C. Am I here ? Or here?   d) Am I here ? Or Over here? |
| **30** | What is the output of the code:<br>        a=0<br>        for i in range(4, 8):<br>          if i % 2 == 0:<br>            a = a + i<br>        print(a)<br>a. 4  b. 8  c. 10  d. 18 |
| **31** | 1. What will be the output of the following Python code?<br>```python
for i in range(10):
    if i == 5:
        break
    else:
        print(i)
else:
    print("Here")
```<br>a) 0 1 2 3 4 Here<br>b) 0 1 2 3 4 5 Here<br>c) 0 1 2 3 4<br>d) 1 2 3 4 5 |
| **32** | What will be the output of the following code |

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| | ```
def maximum(x, y):
    if x > y:
        return x
    elif x == y:
        return 'The numbers are equal'
    else:
        return y

print(maximum(2, 3))
```<br>a) 2  b) 3  c) the numbers are equal  d) none of the mentioned |
| 33 | What will be the output of following code?<br>```
def cube(x):
    return x * x * x
x = cube(3)
print(x)
```<br>a) 9  b) 3  c) 27  d) 30 |
| 34 | Which of the following is the output of the code :<br>```
def power(x, y=2):
    r = 1
    for i in range(y):
        r = r * x
    return r

print( power(3))
print(power(3,3))
```<br>a) 212   b) 9     c) 567   d) None of the mentioned<br>   32      27      98 |
| 35 | What is the variable defined outside a function reffered to as ?<br>a) A static variable    b) A Global variable<br>b) c) a Local variable    d) An Automatic variable |
| 36 | Identify which of these will cause error and why?<br>(i) def func(a=1,b):       (ii) def func(a=1,b,c=2)<br>(iii) def func(a=1,b=1,c=2)  iv ) def func(a,b,c) |

| 37 | Find and write the output of following python code: |
|---|---|
| | ```python
def Alter(M,N=45):
    M = M + N
    N = M - N
    print(M,"@",)
    return M
A=Alter(20,30)
print(A,"#")
B=Alter(30)
print(B,"#")
```

a) 50 @    b) 50 #      c) 75 @    d) 50 @
   50 #        50 @         50 @        70 #
   75 @        75 #         75#         75 @
   75 #        75@          50 @        50# |
| 38 | Evaluate the following expressions
   not False or False and True
      a) True  b) False  c) can't be evaluated   d) 0 |
| 39 | x, y = (y, x)[::-1]
a) Both x and y are -5        b) Both x and y are 5.
c) The values of x and y are swapped
d) The values of x and y are unchanged |
| 40 | Choose the correct way to access value 20 from the following tuple
aTuple = ("Orange", [10, 20, 30], (5, 15, 25))
      a)  aTuple[1:2][1]     b) aTuple[1:2](1)
      c)aTuple[1:2][1]        d) aTuple[1][1] |
| 41 | Which of the following built-in function can't be applied on tuples
 a. sum()  b.  min()  c.   insert()   d.  len() |

| | |
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| 42 | What will be the output of the following python code?<br><br>def cube (x):<br>      return x * x * x<br>x = cube (2)<br>print (x)<br><br>(A) 2                    (B) 4<br>(C) 8                    (D) 20 |
| 43 | What are the two main types of functions?<br>(i) Custom function<br>(ii) Built in function<br>(iii) User define function<br>(iv) System function<br><br>(A) (i) and (ii)         (B) (ii) and (iii)<br>(C) (iii) and (iv)       (D) (i) and (iv) |
| 44 | Which of the following commands is used to write the list L into the binary file, STUDENT.DAT? (marked as #2 in the Python code)<br><br>(A) pickle.write(L,f)<br>(B) pickle.write(f, L)<br>(C) pickle.dump(L,F)<br>(D) f=pickle.dump(L) |
| 45 | Evaluate the following expression and identify the correct answer.<br>16 - (4 + 2) * 5 + 2**3 * 4<br>a. 54      b. 46      c. 18    d. 32 |
| 46 | What will be the output of the following code?<br>def my_func(var1=100, var2=200):<br>    var1+=10<br>    var2 = var2 - 10<br>    return var1+var2<br>print(my_func(50),my_func())<br>a. 100 200   b. 150 300    c. 250 75    d. 250 300 |

| 47 | What will be the output of the following code?

```
value = 50
def display(N):
    global value
    value = 25
    if N%7==0:
        value = value + N
    else:
        value = value - N
    print(value, end="#")
display(20)
print(value)
```

a. 50#50    b. 50#5    c. 50#30    d. 5#50# |
|---|---|
| 48 | Which of the following options can be the output for the following code?

```
import random
List=["Delhi","Mumbai","Chennai","Kolkata"]
for y in range(4):
    x = random.randint(1,3)
    print(List[x],end="#")
```

a. Delhi#Mumbai#Chennai#Kolkata#
b. Mumbai#Chennai#Kolkata#Mumbai#
c. Mumbai# Mumbai #Mumbai # Delhi#
d. Mumbai# Mumbai #Chennai # Mumbai |
| 49 | What is the output of the following code snippet?

```
def ChangeVal(M,N):
    for i in range(N):
        if M[i]%5 == 0:
            M[i]//=5
        if M[i]%3 == 0:
            M[i]//=3
L = [25,8,75,12]
ChangeVal(L,4)
for i in L:
    print(i,end="#")
```

a) 5#8#15#4#
b) 5#8#5#4#
c) 5#8#15#14#
d) 5#18#15#4# |

Arun, during Practical Examination of Computer Science, has been assigned an incomplete search() function to search in a pickled file student.dat. The File student.dat is created by his Teacher and the following information is known about the file.

- File contains details of students in [roll_no,name,marks] format.
- File contains details of 10 students (i.e. from roll_no 1 to 10) and separate list of each student is written in the binary file using dump().

Arun has been assigned the task to complete the code and print details of roll number 1.

```
def search():
    f = open("student.dat",_____)      #Statement-1
    _____:                              #Statement-2
        while True:
            rec = pickle._____          #Statement-3
            if(_____):                  #Statement-4
                print(rec)
    except:
        pass
    _____                               #Statement-5
```

| 50 | In which mode Arun should open the file in Statement-1?<br>a) r   b) r+   c) rb   d) wb |
|----|----|
| 51 | Identify the suitable code to be used at blank space in line marked as Statement2 |

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| | a) if(rec[0]==1)     b) for i in range(10)     c) try     d) pass |
| 52 | Identify the function (with argument), to be used at blank space in line marked as Statement-3.<br>a) load()        b) load(student.dat)        c) load(f)    d) load(fin) |
| 53 | What will be the suitable code for blank space in line marked as Statement-4.<br>a) rec[0]==2   b) rec[1]==2    c) rec[2]==2   d) rec[0]==1 |
| 54 | Which statement Arun should use at blank space in line marked as Statement4 to close the file.<br> a) file.close()        b) close(file)        c) f.close()        d) close() |
| 55 | Which of the following library need to be imported to in the above code<br>     a)  csv    b) txt   c) pickle    d) dump |