



Date:04/12/2024 GRADE: XI	TERM II EXAMINATION-2024-25 COMPUTER SCIENCE(083) MARKING SCHEME	Max marks:70 Time: 3 Hour
--	---	--

SECTION A		
1.	State True or False "Tuple is datatype in Python which contain data in key-value pair." False	1
2.	Which of the following is not a valid arithmetic operator? a) % b) // c) # d) **	1
3.	What will be the output of the following python list operation? data =(10,20,30,40,20,60,70,20) print(data.count(20)) a) [20] b) 2 c) 3 d) [10,20,30,40,70]	1
4.	Choose one option from the following that will be the correct output after executing the below python expression. print(True or (not True) and False) a) False b) True c) or d) not	1
5.	Select the correct output of the following python code: str="Myprogram is program for you" t = str.split("p") print(t) a) ['My ', 'rogram is ', 'rogram for you'] b) ['My ', 'program', ' is program for you'] c) ['My ', ' is program for you'] d) ['My ', ' is ', ' for you']	1
6.	To create an empty dictionary we use . a) d={} b) d=[] c) d=() d) d=={}	1
7.	Which of the following statements is True? a) We can repeat a key in a dictionary. b) A tuple is a mutable data type. c) sorted() returns a sorted list from the tuple. d) extend () is used to add elements in the end of the list.	1
8.	A computer takes it and gives a) Process,input,output b) Input,output,process	1

	<p>c) Input,process,output d) None of these</p>	
9.	<p>Which of the following operations will generate an error? a) "PYTHON"*2 b) "PYTHON" + "10" c) "PYTHON" + 10 d) "PYTHON" + "PYTHON"</p>	1
10.	<p>Which of the following is not a point-and-draw device? a) Keypad b) Trackball c) Touch screen d) Mouse</p>	1
11.	<p>The precise step by step instructions given to perform a task are called..... a) Flowchart b) Algorithm c) SDLC d) All of these</p>	1
12.	<p>Given a Tuple t= (10, 20, 30, 40, 50, 60, 70, 80, 90) What will be the output of print(t[-1:-6:-2])? (a) (90,70,50) (b) (60,70,80,90) (c) (90,80,70) (d) ()</p>	1
13.	<p>Which of the following is not a valid identifier? a) Mybook b) @book c) _book Book23</p>	1
14.	<p>What will be the output of the following python expression?print(2**3**2+6//2) a) 510 b) 515 c) 512 d) 320</p>	1
15.	<p>Identify the output of the following Python statements x = 2 while x < 9: print(x, end="")x = x + 1</p> <p>a. 12345678 b. 123456789 c. 2345678 d. 23456789</p>	1

16.	<p>What is the output of the following code?</p> <pre>Str="hello" print(list(Str))</pre> <p>a. ('h','e','l','l','o') b. [hello] c. ['hello'] d. {hello}</p>	1
17.	<p>Which operations will give result in 8.</p> <p>a) 65//8 b) 17/9 c) 2**4 64**0.5</p>	
18.	<p>By default, the range of values in for loop starts from..... in every iteration.</p> <p>a) -1 b) 0 c) 1 d) 10</p>	
19.	<p>In if statement, when does the indented statement get executed?</p> <p>a) Condition is false b) Does not depend on condition. c) Condition is true d) None of these</p>	
<p>Q17 and 18 are ASSERTION AND REASONING based questions. Mark the correct choice as</p> <p>(a) Both A and R are true and R is the correct explanation for A (b) Both A and R are true and R is not the correct explanation for A (c) A is True but R is False (d) A is false but R is True</p>		
20.	<p>Assertion (A): Python is a case sensitive language and supports dynamic typing.</p> <p>Reasoning (R): In python the type of a variable determined at run time and the errors that only show up at run time.</p> <p>b) Both A and R are true and R is not the correct explanation for A</p>	1
21.	<p>Assertion: An algorithm is the logical sequence of precise steps that solve a given problem.</p> <p>Reason: An algorithm must have finite number of precise steps, which must be effective and end in a reasonable amount of time.</p> <p>a) Both A and R are true and R is the correct explanation for A</p>	1

SECTION B

22.	<p>Rewrite the following code in Python after removing all syntax error(s). Underline each correction done in the code.</p> <pre>Num = int(input("Number:")) s=0 for i in range(1,Num,3): s+=1 if i%<u>2==</u> <u>0:</u> print(i* 2) <u>else:</u> print(i* 3)print (S)</pre>	2
23.	<p>What will be the output of the following string operation? C=('P', 'Y', 'T', 'H', 'O', 'N', '@', 'L', 'A', 'N', 'G', 'U', 'A', 'G', 'E') print(C[2:12:2])</p> <p>('T', 'O', '@', 'A', 'G')</p> <p>a) Write the output of the following code. data = (1,2,4,5) for x in data: x = x + 10 print(data) (1,2,4,5)</p>	1+1
24.	<p>What is meant by traversing a tuple? Write a program to traverse a tuple.</p> <p>Accessing each element from the list. data = (1,2,4,5) for i in data: print(i)</p>	2
25.	<p>Re-write the following python code and underline the corrected one.</p> <pre>for x in range(1,<u>4</u>): __for y in range(2,5): <u>if(x>=10) :</u> break print(x*<u>y</u>)</pre>	2
26.	<p>Predict the output of the following.</p>	2

	<pre> var=7 while var>0: print("current variable value: ",var) var=var-1 if var==3: break else: if var==6: var=var-1 continue print("Good bye") </pre> <p>current variable value: 7 current variable value: 5 Good bye current variable value: 4</p>	
27.	<p>Write a python program to print the factorial of a given numbers.</p> <pre> n = int(input("Enter a number: ")) if n < 0: print("Factorial is not defined for negative numbers.") else: result = 1 for i in range(1, n + 1): result *= i print(f"The factorial of n is",result) </pre>	2
28.	<p>a)Write a program to remove an element '25' from the given Tuple. tuple1 = (5, 10, 15, 20, 25, 30)</p> <pre> tuple1=list(tuple1) del tuple1[4] tuple1=tuple(tuple1) print(tuple1) </pre> <p style="text-align: center;">OR</p> <p>b) Explain tuple operations with examples. (Explain the tuple operations)</p>	2
SECTION C		
29.	<p>a)What are tokens? With the help of a python program, explain the tokens.</p> <p style="text-align: center;">OR</p> <p>b)What are mutable and immutable data types? Give suitable examples in Python.</p>	3
30.	<p>a) Predict the output of the Python code given below:</p> <pre> tuple1=(11, 22, 33, 44, 55 ,66) </pre>	3

```
m=max(tuple1)
mi=min(tuple1)
for i in tuple1:
    if i%2==0:
        s=m+i
        t=mi+i
print(s)
print(t)
```

132
77

OR

```
b)keys=['A','B','C','D']
value=10
d1=dict.fromkeys(keys,value)
print(d1)
print(d1.get('D'))
del d1['D']
s=d1
s['E']=12
print(d1)
```

{'A': 10, 'B': 10, 'C': 10, 'D': 10}
10
{'A': 10, 'B': 10, 'C': 10, 'E': 12}

31. a) Predict the output of the following python code:

```
data =(2,4,2,1,2,1,3,3,4,4)
d = {}
for x in data:
    if x in d:
        d[x]=d[x]+1
    else:
        d[x]=1
print(d)
{2:3,4:3,1:2,3:2}
```

3

	OR	
	b) Predict the output of the following python bESM RTWITH\$PYTHON	
SECTION D		
32.	<pre> If x=('L','a','n','g','u','a','g','e') y=('I','s') Find a) print(x[1:6:2]) b) print(x[-3:]) c) print(x[:1:-3]) d) print(x+y) e) print(y*3) f) print(x) g) print(len(x)+len(y)) h) print(max(x)) i) print(x.count('a')) j) print(x[:2]) ('a', 'g', 'a') ('a', 'g', 'e') ('e', 'u') ('L', 'a', 'n', 'g', 'u', 'a', 'g', 'e', 'I', 's') ('I', 's', 'I', 's', 'I', 's') ('L', 'a', 'n', 'g', 'u', 'a', 'g', 'e') 10 L a 2 ('L','n','u','g') </pre>	5
33.	<p>Consider the following tuple C:</p> <pre>C= ('C', 'o', 'm', 'p', 'u', 't', 'e', 'r')</pre> <p>What will be the output of the following string operations :</p> <ol style="list-style-type: none"> i. print(C[0:len(C)]) ii. print(C[-7:-1]) iii. print(C[: :2]) iv. print(C.replace("Science","Application")) v. print(2*C) <p>Computer Science Scienc Cmue cec Computer Application Computer ScienceComputer Science</p>	5

SECTION E

34.	<p>a) Write a program in python to print the following pattern.</p> <pre>1 1 2 1 2 3 1 2 3 4 1 2 3 4 5</pre> <p>for i in range(1,6): for j in range(1,i+1): print(j,end=" ") print()</p>	4
35.	<p>a. What is a dictionary in python? b. D={1:"One"2:"Two",3:"Three"}.</p> <p>Predict the output.</p> <pre>for i in D: print(i,":",D[i]) print(D.keys()) D.values() D.get(3) len(D)</pre> <p>1 : One 2 : Two 3 : Three dict_keys([1, 2, 3]) dict_values(['One', 'Two', 'Three']) Three 3</p>	4
36.	<p>Predict the output for the following.</p> <p>a) for x in range(1,4): for y in range(2,5): if x*y>10: break print(x*y)</p> <p>2 3 4 4</p>	4

	<pre> 6 8 6 9 b) a=110 while a>100: print(a) a-=2 110 108 106 104 102 </pre>	
37.	<p>a) Write a program to check if the year entered by the user is a leap year or not.</p> <pre> Year=int(input("Enter a year")) if(Year%4==0and Year%100!=0or Year%400==0): print("Leap year") else: print("Not a leap year") </pre> <p>b) Write a program to takes the name and age of the user as input and display a message whether the user is eligible to apply for a driving licence or not. (The eligible age is 18)</p> <pre> name=input("Enter your name") age=int(input("Enter your age")) if(age>=18): print("You are eligible") else: print("You are not eligible") </pre>	4

END***