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| **PERIODIC EXAMINATION II (2021-22)** | | | | | | | | |
| **Subject: COMPUTER SCIENCE**  **Grade: XI** | | | | Max. Marks: 35Time:1 hr 10 mins | | | | |
| **Name:** | | | | | | **Section:** | **Roll No:** | |
| General Instructions:  The question paper is divided into 2 Sections – A and B.  • Section A-MCQ (Objective), consist of 10 Questions (1- 10) – 10 marks  • Section B- Subjective , consist of 4 Questions (11- 14) – 25 marks   * The question paper has 4 printed pages | | | | | | | | |
|  | **Section-A** | | | | | | | **10** |
| **Choose the best possible option.** | | | | | | | |  |
|  | What will be the output of the following code:  str="Jolly good fellow"  str=str[6::2]  print(str) | | | | | | |  |
|  | **a.** | | Error | | **b.** | good fellow | |  |
|  | **c.** | | go elw | | **d.** | wle og | |  |
| **2.** | Suppose s is assigned as follows:  s="football" All of the following expressions produce the same result except one. Which one? | | | | | | |  |
|  | **a.** | | s[ : :-1][ : :-7] | | **b.** | s[ : :-7] | |  |
|  | **c.** | | s[ : :-1][-1]+s[len(s)-1] | | **d.** | s[0]+s[-1] | |  |
| **3.** | What value will be returned by the following:  >>> string="I know matrix concept" >>> sub="mat" >>> string.find(sub,5) | | | | | | |  |
|  | **a.** | | -1 | | **b.** | 0 | |  |
|  | **c.** | | True | | **d.** | 7 | |  |
| **4.** | Identify the output of the following Python statements:  L = []  for i in range (4):  L.append (2\*i+1)  print (L[::-1]) | | | | | | |  |
|  | **a.** | | [7,5,3,1] | | **b.** | [9,7,5,3] | |  |
|  | **c.** | | [4,3,2,1] | | **d.** | [1,2,3,4] | |  |
| **5.** | What will be the output of the following:  >>> string="Banana is an example of fruit"  >>> string.replace("an","ok") | | | | | | |  |
|  | **a.** | | Banana is ok example of fruit | | **b.** | Bokana is ok example of fruit | |  |
|  | **c.** | | Bokana is an example of fruit | | **d.** | Bokoka is ok example of fruit | |  |
| **6.** | Lists are i.\_\_\_\_\_\_\_\_\_\_\_\_\_ and strings are ii.\_\_\_\_\_\_\_\_\_\_\_\_ | | | | | | |  |
|  | **a.** | | i. mutable, ii. immutable | | **b.** | i.immutable, ii.mutable | |  |
|  | **c.** | | i. mutable,ii. mutable | | **d.** | i. immutable, ii.immutable | |  |
| **7.** | What will be the print( type(x)) give if  >>> s1="Dubai Mall"  >>> x=s1.split() | | | | | | |  |
|  | **a.** | | class int | | **b.** | class list | |  |
|  | **c.** | | class tuple | | **d.** | class str | |  |
| **8.** | List AL is defined as follows:  AL=[1,2,3,4,5] Which of the following statements removes the middle element 3 from it so the list AL equals [1,2,4,5]? | | | | | | |  |
|  | **a.** | | remove AL[3] | | **b.** | AL[2:3]=[ ] | |  |
|  | **c.** | | AL.pop(3) | | **d.** | AL.remove(2) | |  |
| **9.** | What will be the output of the following code:  list1=[13,18,11,16,13,18,13]  print(list1.index(18))  list1.append(list1.count(13))  print(list1) | | | | | | |  |
|  | **a.** | | 2  [13, 18, 11, 16, 13, 18, 13, 3] | | **b.** | 1  [13, 18, 11, 16, 13, 18, 13, [3]] | |  |
|  | **c.** | | 1,5  [13, 18, 11, 16, 13, 18, 13, 3] | | **d.** | 1  [13, 18, 11, 16, 13, 18, 13, 3] | |  |
| **10.** | Predict the output:  names=["Rita","Bunty",["Pawan","Bharat"],"Neetu"]  print(len(names),"#",names[2][1]) | | | | | | |  |
|  | **a.** | | 5 # [“Pawan”,”Bharat”] | | **b.** | 5 # [“Bharat”] | |  |
|  | **c.** | | 4 # Bharat | | **d.** | 4 # Pawan | |  |
| **II** | **Section-B** | | | | | | |  |
| **11.** | What will be the output of the following code: | | | | | | | **10** |
|  | a. | s="SchooL2@com"  k=len(s)  m=""  for i in range(0,k):  if (s[i].isupper()):  m+=s[i].lower()  elif (s[i].isalpha()):  m+=s[i].upper()  else:  m+='bb'  print(m) | | | | | | (3) |
|  | b. | s="abracadabra"  x=[ ]  for i in range(len(s)):  a=s[i]  b=a.upper()  if a not in x and b not in x:  if a>'p':  x.append(a.upper())  else:  x.append(a)  print(x) | | | | | | (2) |
|  | c. | L=["how","many","students",["know","python"],"programming"]  print(L[3:4])  print(L[3:4][0])  print(L[3:4][0][1])  print(L[3:4][0][1][4]) | | | | | | (3) |
|  | d. | L1, L2= [10, 15, 20, 25], [ ]  for i in range (len (L1)) :  L2. insert( i,L1.pop ())  print (L1, L2, sep="&" )’’’ | | | | | | (2) |
| **12.** | Answer the following: | | | | | | | **3** |
|  | a. | Differentiate between the append and extend function in a list. Give example | | | | | | (2) |
|  | b. | Explain the string partition function. | | | | | | (1) |
| **13.** | Rewrite the correct code and underline the errors corrected in the following code: | | | | | | | **2** |
|  | #Program to print digits entered in a string  str=int(input(“Enter a string”))  for i in range(str):  if str[i].isdigit :  print(str[i]) | | | | | | |  |
| **14.** | Write a python program for: | | | | | | | **10** |
|  | a. | Create a list ABC where the first element will be 1 copy of a, 2nd element will be 2 copies of b and last element as 26 copies of z. The list ABC should get initialized using a for loop element by element.  Output:  The list ABC = [‘a’,’bb’,’ccc’,’dddd’,…..] | | | | | | (4) |
|  | b. | Accept a list of n elements and reverse a list without using another list , list slice or list reverse functions.  Example:  If the entered list li= [23, 67, 80, 61, 40]  after execution of the code the li=[40,61,80,67,23]  Output:  The reversed list li= [40, 23, 80, 61, 67] | | | | | | (3) |
|  | c. | Accept a list of n numbers. Change the list such that if the number is a multiple of 4 replace it with one fourth of the number and the numbers which are not multiple of 4 if they are odd double them and if even replace them with zero. E.g. Li= [23.32,62,89,20] After execution, the changed list: Li= [46,8,0,179,5] | | | | | | (3) |