

**General Instructions:**

- Attempt all questions. The question paper is divided into 3 sections – A, B and C.
- Section A, consists of 7 questions (1-7). Each question carries 2 marks.
- Section B, consists of 3 questions (8-10). Each question carries 3 marks.
- Section C, consists of 3 questions (11-13). Each question carries 4 marks.
- Internal choices have been given for question numbers 7, 8 and 12.

Q No.	Part No.	Questions	Marks
<b>SECTION A- 2 Marks</b>			
Q.1	(a)	Consider two dictionaries – d1= {1:10, 3:45, 6:60, 7:70} and d2= {1:15, 2:20, 3:30}. What will be content of d1 after executing the following command? d1.update(d2)	1
	(b)	Consider the following code and predict output- dct={1: "One" , 2: "Two" , 3: "Three" , 4: "Four"} for x in dct.values(): print (x, end= "#" )	1
Q.2		Name the Python Library modules which need to be imported to invoke the following functions: (1) randrange() (2) mean()	2
Q.3		What are Open Source Software? Write name of any two software which are categorized as OSS.	2
Q.4		What do you mean by Net Etiquettes? Discuss any two such etiquettes.	2
Q.5	(a)	Which of the following activity is not an example of cyber bullying? (a) Arnav sent an email to his friend with a message saying that "I am sorry". (b) Arnav sent a threatening message to his friend saying "Do not try to call or talk to me". (c) Arnav created an embarrassing picture of his friend and uploaded on a social networking site.	1
	(b)	Abdul got a call from Bank office and asking PIN, OTP and some details for updation of his ATM card. Which of the following is not suggested for Abdul? (a) He should provide all details as desired by caller. (b) He should not give any details and contact bank helpline number to check the validity of the call received. (c) He should inform local police about the call.	1



Q.6	What are Trojan Horse? How they are different from computer virus?	2
Q.7	<p>Consider the lists L1= [1, 2, 3] and L2= [5, 6, 7]. What will be output of the following-</p> <p>(1) L1*2                      (2) L1+L2</p> <p style="text-align: center;"><b>OR</b></p> <p>Consider a list L=[10,12,14,20,22,24,30,32,34], find the output of the following-</p> <p>(1) L[ 0: 10 : 2]              (2) L[ : : 3]</p>	2
<b>SECTION B- 3 Marks</b>		
Q.8	<p>Discuss the following functions of Dictionary with suitable example:</p> <p>(a) pop()              (b) popitem()              (c) items()</p>	3
Q.9	<p>Consider the following program. import random AR= [10, 20, 30, 40, 50, 60, 70]; START = random.randint(1, 3) END= random.randint(2, 4) for k in range(START, END+1): print(AR[k], end = "#")</p> <p>(a) What possible output(s) are expected to be displayed on screen when above program is executed?</p> <p>(i) 10#20#30# (ii) 30#40#50# (iii) 50#60#70# (iv) 20#30#40#</p> <p>(b) Specify the maximum values that can be assigned to START and END variable.</p> <p>(c) What is difference between random() and randint() function.</p>	3
Q.10	<p>Write the differences between the following —</p> <p>(a) Copyrights and Patents (b) Phishing and Hacking (c) Cyber Bullying and Cyber Trolling</p> <p style="text-align: center;"><b>OR</b></p> <p>What is Plagiarism? Discuss two suggestions that should be followed to avoid plagiarism while using contents from the Internet.</p>	3
<b>SECTION C- 4 Marks</b>		
Q.11	Write a program to read a list of numbers and create another list which store half of each even number and double of each odd number in the list. Example: if list is containing [3,5,6,2,7,4,5,8] then new list should contain [6,10,3,1,14,2,10,4]	4

Q.12		Write a program to input a tuple of integers and display sum of all numbers present in the tuple.	4
		<p>For example, is tuple stores 3,7,2,8,4 then output should be – Sum of tuple is : 24</p> <p style="text-align: center;"><b>OR</b></p> <p>Write a program to input a tuple of integers and count how many numbers are divisible with 5. For example, is tuple stores 3,7,15,35,56,45,65 then output should be – Total Number divisible by 5 are : 4</p>	
Q.13	(a)	What do you mean by e-waste? Why should e-Waste be handled properly?	2
	(b)	What is cyber-crime? Discuss two precautions to prevent cyber-crime.	2

**All the best**