

COMMON ANNUAL EXAMINATION
SESSION :2022-23
CLASS :XI
SUBJECT: COMPUTER SCIENCE (083)

MAX – MARKS : 70

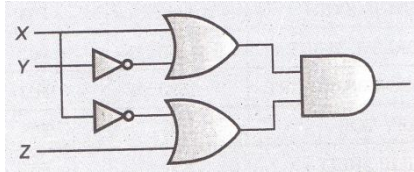
TIME: 3hrs

General Instructions:

1. This question paper contains five sections, Section A to D
2. All questions are compulsory.
3. Section A have 18 questions carrying 01 mark each.
4. Section B has 07 Very Short Answer type questions carrying 02 marks each.
5. Section C has 05 Short Answer type questions carrying 03 marks each.
6. Section D has 02 Long Answer type questions carrying 04 marks each.
7. Section E has 03 Long Answer type questions carrying 05 marks each.

SNO	SECTION A	MARKS
1	Binary equivalent of decimal number 65 is _____ a) 1000001 b) 1000000 c) 1000011 d) 100001	1
2	It is small text file on the user's computer where visited websites store own information about a user a) Spam b) Malware c) cookies d) Adware	1
3	What is the output of the following? a = [0, 1, 2, 3] for a[-1] in a: print(a[-1]) a) 0 1 2 3 b) 0 1 2 2 c) 3 3 3 3 d) error	1
4	A _____ is a network security system, either hardware- or software-based, that controls incoming and outgoing network traffic based on a set of rules. a) Spyware b) Firewall c) Adware d) Anti virus	1
5	Which of the following is not a cyber crime? a) Identity Theft b) Cyber Bullying c) Cyber stalking d) Sending mail to misspelled email id	1
6	Which of the following are not Utilities a) Text editor b) Anti virus c) Disk Defragmentor d) Developer tools	1
7	The expression for Demorgan's law is given by _____ a) $(A + B)' = A' + B'$ b) $(A + B)' = A' . B'$ c) $AB + AA' = A$ d) $A + B = B + A$	1
8	Which one of the followings will raise an error if given key is not found in the dictionary	1

	a) del statement b)pop() c) popitem() d) all of these	
9	Which command creates shallow copy of a dictionary a) <dict>.copy() b) <dict>.append c) by = operator d) shallow.dict	1
10	_____is the criminal fraudulent process of attempting to acquire sensitivity information. (a) Pharming (b) Hacking (c) Cracking (d) Phishing	1
11	Which of the following will create a single element tuple ? a) (1,) b) (1) c) ([1]) d) tuple([1])	1
12	What of the following is true about social media etiquettes ? a) You should be authentic online b) You should be secure online c) You should be reliable online d) All of these	1
13	After fight with your friend, you did the following activities. Which of these activities is not an example of cyber bullying? a) You sent an email to your another friend with a message saying that you are disturbed b) You sent an threatening message to your friend saying “don’t call again” c) You created an embarrassing picture of your friend and posted on social networking site d) None of above	1
14	Study the following statements: <pre>>>> str1 = "jvat" >>> str2 = ":" >>> str3 = "point" >>> str1[-1:]</pre> What will be the output of this statement? a) t b) j c) point d) java	1
15	Scam is a a) Any frudent business practice that extracts money from an unsuspecting ignorant person b) Entering information related to payments and even about your home address c) Spreading rumours online like a spam mail d) Bullying your close relative	1
16	To avoid the tracking by website and storing of cookies the private browsing opens a website in a _____ a) Public b) incognito c) duplicate d) all of these	1
17	Assertion(A): keys() of the dictionaries must be unique. Reason(R): The keys of a dictionary can be accessed using values. a) Both A and R are true and R is correct explanation of A. (b) Both A and R are true but R is not correct explanation. (c) A is true but R is false. (d) A is false but R is true.	1
18	Assertion (A)- (And) is a logic circuit . Reason (R) – (And) logic circuit returns True when all values are true. (a) Both A and R are true and R is correct explanation of A. (b) Both A and R are true but R is not correct explanation of A (c) A is true but R is false. (d) A is false but R is true.	1

SECTION B		
19	What is the use of sorted() and sort().	2
20	Define the following functions with their syntax: a) Index() b) Items()	2
21	Explain the difference between compiler and interpreter	2
22	What possible outputs(s) are expected to be displayed on screen at the time of execution of the program from the following code? Also specify the maximum values that can be assigned to each of the variables Lower and Upper. import random AR=[20,30,40,50,60,70]; Lower =random.randint(1,3) Upper =random.randint(2,4) for K in range(Lower, Upper +1): print (AR[K],end="##") i) 10##40##70# ii) 30##40##50# iii) 50##60##70# iv) 40##50##70#	2
23	Write the equivalent Boolean Expression for the following logic circuit 	2
24	Mriganka has recently shifted to new city and new school. She does not know many people in her new school and city. But all of the sudden someone is posting negative, demeaning comments on her social networking profiles. She is also getting repeated mails from unknown persons. a) What is happening to her? b) What action should she taken to stop them?	2
25	Convert the following: a) 4A8C ₁₆ to Binary b) 72905 ₁₀ to hexadecimal	2
SECTION C		
26	When should be tuple be preferred over Lists? What are nested tuple ? Also give an example.	3
27	Find the error(s) if any from the following program: student_name = 'Sonia' marks = {'James'; 90, 'Jules';55, 'Arthur';77 for student in marks if student = student_name: prin(marks[student]) break else: print('No entry with that name found.')	3
28	Explain setdefault functions with an example.	3
29	Write a program to find the maximum element in the list entered by the user.	3
30	Write python script that inputs a number N. Find out and print whether N is prime number or not.	3
SECTION D		
31	Write a Program to display	4

	A A B A B C A B C D A B C D E	
32	Write a program to print the sum of the series (1) +(1+2) +(1+2+3) +.....(1+2+3+4...n) OR Write a program to print sum of series $1 + 1/2! + 1/3! + \dots + 1/n!$	4
	SECTION E	
33	Write a menu driven program to perform various list operations ,such as: <ul style="list-style-type: none"> • Append an element • Modify an existing element • Delete an existing element from its position • Sort the list in ascending order OR Given a dictionary D1 = {"k1": "v1","k2": "v2","k3": "v3","k4": "v4"} create a dictionary with opposite mapping i.e keys becomes values and values becomes keys. Inveted D1={"v1": "k1","v2": "k2","v3": "k3","v4": "k4"}	5
34	Explain E waste management . What are the composition of e-waste . Also write the unit operations involved in the recovery and recycling of the disposed material.	5
35	Given a nested tuple t1=((1,2), (3,4,5), (6,7,8)). Write a program that displays the means of individual elements of tuple t1 and then displays the means of individual elements of tuple t1 and then displays the mean of these computed means. For eg Elem 1 mean 1.5 Elem 2 mean 4 Elem 3 mean 7 Mean of mean 4.166	5