KENDRIYA VIDYALAYA ELURU, HYDERABAD REGION PRE-BOARD EXAMINATION (2020-21)

COMPUTER SCIENCE – (083) CLASS- XII

MAX. MARKS: 70 TIME: 3 hrs

General Instructions:

• All questions are compulsory.

• Question paper is divided into 4 sections A, B, C and D.

Section A: Unit-1
 Section B: Unit-2
 Section C: Unit-3
 Section D: Unit-4

		SECTION A			
Q.1	(a)	Which of the following is valid assignment operator in Python: (i) // (ii) ? (iii) < (iv) *=			
	(b)	Which of the following can be used as valid variable identifier(s) in Python? (i) Data (ii) _Total (iii) 4thSum (iv)	1		
	(c)	Number# What is Y in this expression $Y = [1, "a", 10.25, X]$	1		
	(d)	Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code. l= int ("Enter value of x:") for in range [0,5]: if x=y print y else print y**2	2		
	(e)	Find and write the output of the following python code: def funct(text): L=len(text) ntext="" for i in range (0, L): if text[i]. isupper(): ntext=ntext+text[i]. lower() elif text[i].isalpha(): ntext=ntext+text[i].upper() else:	2		

		ntext=ntext+'abc'						
		print(ntext)						
		funct("Gmail@com")						
	(f)	Find and write the output of the following python code:	3					
		def Check(n1=1, n2=2):						
		n1=n1+n2						
		n2+=1 $mint(n1, n2)$						
		print(n1, n2) Check()						
		Check(2,1)						
		Check(3)						
		Check(S)						
	(g)	(g) What are the advantages of Functions in a program?						
Q2.	(a)	What will be the output of the following Python code	1					
`		snippet?						
		d1 = {"john":40, "peter":45}						
		d2 = {"john":466, "peter":45}						
		<pre>print(d1 == d2)</pre>						
		i) True ii) False iii) None iv) Error						
	(b)	Which is the correct form of declaration of list?	1					
		(i) L1=['a',[1,2,3], 5, 'hello']						
		(ii) L1=('a',[1,2,3], 5, 'hello')						
		(iii) L1={'a',[1,2,3], 5, 'hello'}						
		(iv) L1=['a',[1,2,3], 5, hello]						
	(c)	Identify the valid declaration of Day:	1					
		Day={1:'january',2:'february',3:'march'}						
		(i) list (ii) dictionary (iii) array (iv) tuple						
	(d)	Find and write the output of the following python code:	1					
		count =1						
		def fun():						
		global count						
		for I in (1,2,3):						
		count+=1						
		fun()						
		print(count)						
	(e)	Find and write the output of the following python code:	1					
		a=1	1					
		while a<=3:						
		print("Value of a=",a)						
		a+=1						
			2					
	(f)	What do you understand by local and global variables in python?						
	(g)	Find and write the output of the following python code:						
	1	a=10						

		1.6.110	
		def call():	
		global a a=15	
		b=20	
		print(a)	
		F(w)	
		call()	
	(h)	Write a function in python to read lines from a text file DATA.TXT and display those lines which start with the alphabet 'H'.	2
		OR Write a function count_this() in python to read the text file DATA.TXT and count the number of times "this" occurs in the file.	
	(i)	Differentiate between mutable and immutable objects in Python language with example.	3
		OR	
		Write a python program to read student.csv file content.	
	(j)	Write a Program to read a record from the binary file "student.dat. Student.dat file contain following entry: roll_no name marks	4
		OR	
		What is a CSV file? And What are the advantages of CSV file formats?	
		SECTION-B	
Q.3		Questions 3 (a) to 3 (d): Fill in the blanks	
	(a)	Through you can establish contact with anyone in the world.	1
	(b)	The main function of is to divide the message or data into packets of a definite size on the source computer.	1
	(c)	is a software that enables us to access the internet and explore websites.	1
	(d)	To connect computers located in a specific building or campus is known as	1

	(e)	(a) A computer network: (i) Is a collection of hardware components and computers (ii) Is interconnected by communication channels (iii) Allows sharing of resources and information (iv) All of the above (b) MAN Stands for			
	(f)	What do you understand by Transmission Medium? Give its types with examples.	2		
	(g)	What is network? Give the advantages of networks?	3		
	(h)	Techno corporation is a consultancy company. It is planning to set up its new centre at Jaipur for its office and web-based activities. It has 3 blocks of buildings named Block A, Block B, Block C. Shortest distances between various Blocks in meters:			
		Block A to Block B 60 m			
		Block B to Block C 50 m			
		Block C to Block A 60 m			
		Block A 125 Block B 30 Block C 50			
0.4	(0)	SECTION-C Which along is used to sort the records of a table in ascending or	1		
Q.4	(a)	Which clause is used to sort the records of a table in ascending or descending order?	1		
	(b)	Which command is used to modify the data in a table or to make changes for some or all of the values in the existing records in a table?			
	(c)	Which clause is used to remove the duplicating rows of the table?			

	(d)	Which clause is used in combination with GROUP BY clause?						1	
	(e)	What are the aggregate functions in SQL?						2	
	(f)	(a) The allows us to perform tasks related to data definition. (i) DDL (ii) DML (iii) TCL (iv) None of the above (b) A is a text that is not executed. (i) Statement (ii) Query (iii) Comment (iv) Clause						2	
	(g)	Write an output for SQL queries (i) to (iii), which are based on the table SHOP: Table: SHOP						3	
				Tubic. Sire				_	
		Cod	le Item	Company	Qty	City	Price		
		10	l Biscuit	Britannia	100	Delhi	15		
		102	2 Jam	Kissan	110	Kolkata	90		
		103	3 Coffee	Nestle	200	Kolkata	55		
		104	4 Sauce	Kissan	56	Mumbai	65	1	
		10:		Britannia	72	Delhi	25]	
		100	6 Maggi	Nestle	150	Mumbai	10	1	
		10'		Cadbury	170	Delhi	35		
	(i) SELECT COUNT(*), Company FROM SHOP GROUP BY Company HAVING COUNT(*)>1; (ii) SELECT MAX(Qty),MIN(Qty) FROM SHOP; (iii) SELECT Item, Qty as Quantity FROM SHOP WHERI City="Delhi";								
	(h)	(h) Write SQL queries for (i) to (iv), which are based on the table: SHOP, given in the question 4(g): (i) To display the records from table shop in alphabetical order as per the name of the Item.						4	
		(ii) To display item, company, and City whose price is between 20 and 80.(iii) To display Item name, Company and quantity for the items who have price more than 50.(iv)To increase quantity of all items by 30 whose city is Mumbai.							
		SECTION-D							
Q.5	(a)	(a) What is SQL?				1			
ν.υ	(u)	1,1100 15 50	. .						1 -

(b)	is known as range operator in MySQL. (i) IN (ii) DISTINCT (iii) IS (iv) BETWEEN	1
(c)	Define the following terms: Field, Record, Table.	2
(d)	What are DDL and DML statements?	2
(e)	 (a) Which of the following modes is used for both writing and reading from a binary file? (i) wb+ (ii) w (iii) wb (iv) w+ (b) Which statement is used to retrieve the current position within the file? (i) fp.seek() (ii) fp.tell() (iii) fp.loc (iv) fp.pos 	2
(f)	What is the output of the following code fragment? Explain. fout = file("output.txt", 'w') fout.write("Hello, world!\n") fout.write("How are you?") fout.close() file("output.txt").read()	2