G H PATEL P G DEPARTMENT OF COMPUTER SCIENCE AND TECHNOLOGY MASTER OF COMPUTER APPLICATIONS (MCA)

SEMESTER - I PS01CMCA31 (PYTHON PROGRAMMING)

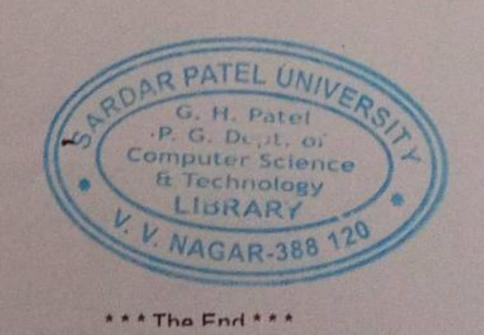
8TH FEBRUARY, 2021

Time: 11:00 a.m. to 12:30 p.m.

Marks: 30

Note: Answers of all the questions (including multiple choice questions) should be written in the provided answer book only.

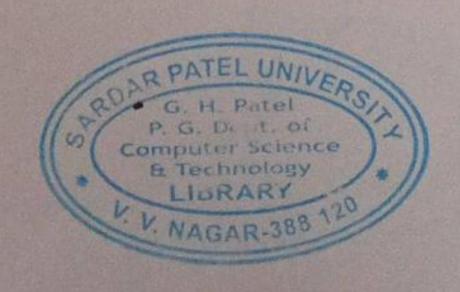
Q-1	Pick in vo	up the most a	ppropriate answe	er from the given alte	ernatives and write	(04)			
		(i) The extension of Python program file is -							
			[B] python		[D] .pi				
	(ii)			ls, is used to write a co	mment line?				
		[A] &	[B] %		[D] #				
	(iii)	is		lata type of a variable.					
				[C] Both [A] & [B]	[D] None of these				
	(iv)		ed to print messag						
			[B] println()	[C] out()	[D] None of these				
0-2	Atte	mnt ANY THRE	E from the followin	a.		(06)			
	II. IV. V.	Explain uppe List down na	r() and lower(). nes of common se r keywords of Pyth	quence operations.					
Q-3	(a)	What is Python	? Write down its ad	dvantages and applicat	ion areas.	(05)			
	(b)	Explain for loop statement and range() by taking suitable examples.							
				OR .					
	(b)	List and explain	n various types of c	perators taking suitable	e examples.	(05)			
Q-4	(a)	What is List? E	xplain any four list	methods/functions with	an example.	(05)			
	(b)	Write Python script to read N number of elements through keyboard, add them to a list variable, and display minimum number among them.							
				OR					
	(b)	What is Tuple?	Explain tuple by ta	aking suitable example		(05)			



G. H. Patel P. G. Department of Computer Science and Technology Master of Computer Applications (MCA)

SEM- I Internal Examinations' PS01CMCA32: Computer Networks Tuesday, 9th February, 2021

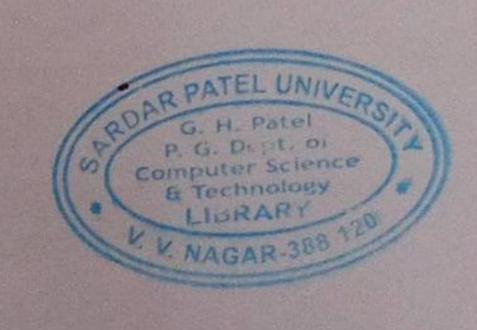
Time	: 11:00 am to 12:30 pm	Max. Max. Max. Max. Max. Max. Max. Max.	arks: 3
Q-1 1.	Choose the most appropriate layer is responsible for	option for each question: r decide the route of the packets.	[4]
	(A) Physical	(B) Datalink	
	(C) Network	(D) Transport	
2.	Full form of WAN is		
	(A) Wide Area Network	(B) Wireless Area Network	
	(C) Wide Area Node	(D) Wireless Area Node	
3.	is an unguided media.		
	(A) Twisted pair cable	(B) Fiber optics cable	
	(C) Co-axial cable	(D) None of these	
4.	Protocol provide	connection oriented service.	
	(A) TCP	(B) UDP	
	(C) IP	(D) None of these	
	 Explain Simplex and Half-duplex v. Discuss the goals of networking. Full form of TCP & UDP. Identify the class of the following a. 125.10.55.96 b. 225.30.80.11 		
(Q-3 Answer the following quest	ions:	
	A. List LAN topologies. Explain any	two with its advantages and disagvantages.	[5]
	B. Difference between LAN, MAN	& WAN	[5]
		OR	
	B. List networking devices. Explain	any two in detail.	[5]
	Q-4 Answer the following ques	tions:	(5)
	A. Explain OSI reference model in	detail.	[5]
	B. List the guided media used in ne		[5]
		OR	[5]
	B. Explain IP Header Format in det	(a11.	[5]



G. H. Patel P. G. Department of Computer Science and Technology MASTER OF COMPUTER APPLICATION (MCA)

PS01CMCA33: DATABASE MANAGEMENT SYSTEMS Wednesday, 10th February, 2021

Time: 11:00 am to 12:30 pm Max. Marks: 30 [4] Q-1 Choose the most appropriate option for each question: 1. Which of the following keyword is not used in constraint? (A) Foreign (B) Check (D) Create (C) Primary Where the metadata are stored in database? (B) Meta dictionary (A) System Catalog (D) None of these (C) DBA command is use to remove the records from a table. 3. (B) INSERT (A) SELECT (D) UPDATE (C) DELETE Which of the following is not a types of join? (B) Outer join (A) Inner join (D) None of these (C) Cross join [6] Q-2 Answer the following questions (ANY THREE): Give one example of Simple attribute and multivalued attribute. Give an example of derived attribute and composite attribute. List out any four data types in oracle. Difference between Char and Varchar data type. Q-3 Answer the following questions: A. Explain entities and attributes. Draw various notations for ER diagram. [5] [5] Explain Primary key and foreign key constraints with an example. OR [5] B. Consider the following table. Student_Master (Student_Id, Student_Name, Birth_Date, Mobile, City) Write down the answers of following queries. 1. Add new record in student_master table. 2. To display all students detail. 3. Remove all the records whose Student_Id greater than 20. Change the City is equal to 'Ahmedabad' for Student_no less than 5. Display students name in alphabetical order. Q-4 Answer the following questions: [5] A. Explain CREATE command syntax with an example. [5] Explain any five in-built functions with an example. OR [5] List types of joins. Explain any two with an example.



G H Patel P G Dept of Comp Sc and Tech, S P University MCA I Semester Examinations, 2021 PS01CMCA35: Computer Fundamentals

* Time: 1 Hour 30 Minutes Date:

	Date: 12/02/2021 Marke: 30					
Q1.	Choose the most	.=				
(i)	Choose the most appropriate option:					
		[04]				
	(A) Hard Disk (B) RAM (C) Cache (D) Registers.					
(ii)	What is the size of all					
	What is the size of the exponent part of the IEEE single-precision format for					
	representing floating-point numbers? (A) 8 bits (B) 10 bits (C) the IEEE single-precision format for					
	(A) 8 bits (B) 10 bits (C) 11 bits (D) None of these.					
(iii)						
	(a) Insert (b) Delete (c) Second (1) at a linear data structure.					
	(a) Insert (b) Delete (c) Search (d) All of these					
(iv)	is an example of linear data structure.					
	(b) Tree (b) Array (c) Graph (d) None of these					
	(a) None of these					
Q2.	Answer the following questions to the second					
(i)	Answer the following questions in brief (ANY THREE): List the steps involved in instruction execution by a CPU.					
	and steeps involved in instruction execution by a CPU.					
(ii)	Construct a Hamming code for the character 'C' (ASCII: 67) considering					
	odd parity.					
(iii)	Represent the binary number -110.1011 in the IEEE single-					
	precision format.					
(iv)	List only operations possible on stack data structure.					
(v)	Draw a singly linked list of your choice.					
Q3.	Answer in Detail.					
(A)	But a simple compater. Write the main fulletions of					
	various components shown in the diagram.	[05]				
(D)	Write a short note on nineline meeting					
(B)	Write a short note on pipeline machines.	[05]				
	OR					
	Write a short note on array processors.					
	write a short note on array processors.					
Q4.	Answer in Detail.					
(A)	Draw diagram of various types of data structure and write about each	[05]				
	type in one line.	[co]				
(B)	Explain concept of one dimension and two dimension array by giving	[05]				
	suitable examples of both.					
	OR	-				
	Explain binary searching technique with suitable example.	1				
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