Spat	Nο	

Enrollment No. : _____

THE CHARUTAR VIDYA MANDAL UNIVERSITY

PG Diploma in Geoinformatics, SEM – II, April 2023 Examination (Regular)

Digital Image Processing (201780201)

Date: 17th April 2023

TIME: 02:00 PM TO 4:00 PM

TOTAL MARKS: 50

Q. 1	Cho	pose the correct answer.		_ [04]				
(1)		What is the process of moving a filter mask over the image and computing the sum						
• •		products at each location called as?						
	(A)	Correlation (C) Linear spatial filter	ng					
	(B)	Convolution (D) Nonlinear spatial fi	ltering					
(2)	In _	level of DIP process Input is image and output is attribute	S.					
	(A)	Low (C) High						
	(B)	Medium (D) Last						
(3)	Wha	at is Histogram Matching also called as?						
	(A)	-						
	(B)	-						
(4)		Element of Image Interpretation depends on the object out	ine.					
	(A)							
	(B)	Size (D) Site						
Q.2	Ansı	swer the following. (any three, each two marks)		[06]				
(1)		fine True Color Composite and False Color Composite images.						
(2)	Defi	fine Correlation, Convolution						
(3)	Dofi	fine Frame Buffer, Digital Image						
(4)	List	t out and define Spatial Filters.						
Q.3	(A)) What is Image Quality? Write a note on two types of errors in digital						
		image.		fa=1				
	(B)	What is image interpretation? Write a note on elementer interpretation.	ents of image	[05]				
		OR						
	(B)	What are Radiometric errors? List out sources of errors explain causes of radiometric errors in detail.	. List out and	[05]				
Q.4	(A)	What is Analog and Digital Image? Explain all types of d	igital image in	[05]				
•	• •	detail.						
	(B)	Write a note on 3 digital formats to store a digital image in example.	computer with	[05]				
		OR						
	(B)	What is Image Resolution? List out and explain types of reso	lutions.	[05]				
Q.5	(A)	Write a note on steps in digital image processing.		[05]				
4,0	(B)			[05]				
	• •	OR						
	(B)	Write a note on Histogram Equalization.		[05]				
Q. 6	(A)	What is classification? Explain ISODATA and K-means	classification	[05]				
٦. ٠	· · ·	algorithm in detail.						
	(B)	Write a note to check classification accuracy. Also explain	types of errors	[05]				
		in classified image.						
	(D)	OR Write a note on spatial filtering. Explain all types of filters in	detail	[05]				
	ini	- vyine a note ou snatial filtering. Explain all types of filters if	uciaii.	ICOI				

THE CHARUTAR VIDYAMANDAL UNIVERSITY

PGD in Geoinformatics, Sem-II
Examination: April 2023 (Regular)
Puthon Programming (2017/02/20)

Python Programming (201780202)
Time: 02:00 PM to 04:00 PM

	Date: :	19 th April 2023	Time: 02:00 PM	to 04:0	0 PM	TOTAL MARKS	: 50
Q. 1		Choose the most correct	ct answer.			[(04]
	(1)	!= is used for	operation.				
		(A) NOR		(C)	XOR		
		(B) OR		(D)	None of above		
	(2)	Extension of python file	is				
		(A) .pi		(C)	.pp		
		(B) .py		(D)	All of above		
	(2)	Python IDE means: Inter	grated er	vironr	ment.		
		(A) Development		(C)	Debugging		
		(B) Deriving		(D)	Designing		
	(4)	Get the value of the 'a'	from {'10','21','33','a',	,'x','r'}	, indexing is used.		
		(A) [0]		(C)	[2]		
		(B) [3]		(D)	[4]		
Q.2	Ans	swer the following in sho	ort. (Attempt any thre	e. eacl	h two marks)		[06]
	(1			c, cuo.	ir eve illarits,		[00]
	(2		nming language is imp	ortant	?		
) (3		of variable in Python.		•		
	(4	•	ind tick in your compu		vstem.		
	•	. , ,	, ,		,		
	(-)						
Q.3	(A)		•		_		[05]
	(B)	What is interactive m	node and script mode	•	non?		[05]
	(0)		O				
	(B)	Write a program to fi	nd the largest numbe	r trom	given any three number	ers.	[05]
Q.4	(A)	Explain logical operat	ors in python progran	nming	language with necess	ary example.	[05]
	(B)			-	amming language w	•	
		example.			0 0 0	•	• •
		•	Ol	R			
	(B)	(B) Introduce IF Else with suitable program in python.					
			, •	• •			[05]
Q.5	(A)	Write notes on list	nd have to condete !!-+:	m m. 41-			[0=1
Q.5	(A) (B)		and how to update list in python.				[05]
	(6)	How tuple distinguish from list in python? Show its importance in programm OR				ramming.	[05] [05]
	(B)	Illustrate for loop and while loop in python.					[03]
	, ,	•	1 1. 7				
Q. 6	(A)	Illustrate python date	e and time module wit	h nece	essary examples		[05]
	(B)	• •			coodi y champics.		[05]
	,-,	array in pyth	OI.	R			[03]
	(B)	Write a program to p			025 calendar		[05]
	,- <i>j</i>						[00]

Seat	Nο	

Enrol	lment	No	•
LINUI	11115111	IVO.	

THE CHARUTAR VIDYA MANDAL UNIVERSITY

PG Diploma in Geoinformatics , SEM – II April 2023 Examination (Regular)

Introduction to Database Management System (201780203)

Date:	21 th /	April 2023 T	IME: 02:00 PM TO	O 4:00	PM TOTAL MARK	S: 50
Q. 1	Cho	ose the correct answe	r.			[04]
(1)	Wh	at is DBMS?				
	(A)	DBMS is a collection	of queries	(C)	DBMS is a programming	
					language	
	(B)	DBMS is a high-leve	l language	(D)	DBMS stores, modifies and	
					retrieves data	
(2)		which of the following tem?	formats data is	store	ed in the database managemen	t
	(A)	Image		(C)	Graph	
	(B)	Table		(D)	None of above	
(3)	Wh	ich of the following is	not a type of da	itabas	se?	
	(A)	Hierarchical		(C)	Distributed	
	(B)	Network		(D)	Decentralized	
(4)	_0	perations do not prese	erve non-match	ed tu	ples.	
	(A)	Left outer join		(C)	Right outer join	
	(B)	Inner join		(D)	None of above	
		•		•		
Q.2	Ans	wer the following. (an	y three, each tw	o ma	rks)	[06]
(1)	Wh	at is Join? List out type	es of joins			
(2)	Wh	at is the full form of Di	DL and DML.			
(3)	Enli	ist types of relationshi	p between tabl	es.		
(4)		ine primary key, Not n	-			
Q.3	(A)	Write a note on Data	Model.			[05]
	(B)	Write a note on Data	base design.			[05]
			OF	₹		
	(B)	Write a note on Data	base Normaliza	ition.		[05]
Q.4	(A)	What is Database? I	łow data can ł	e sto	ored in database? Explain this	by [05]
		taking suitable exam			•	,
	(B)	Explain E-R Diagram	in detail with ϵ	examp	ole.	[05]
		-	OF	₹ -		• •
	(B)	Explain Basic operat	ions on RDBMS	in de	tail.	[05]
	• •	•				[,
Q.5	(A)	Write a note on trans	sactions.			[05]
•	(B)			tions	states with the help of diagran	
	,		OR		states with the help of diagram	[05]
	(B)	Write a note on conc				[05]
	(-)	a mote on cone	arreiney control	••		[دم]
Q. 6	(A)	Write a note on ERD.				[UE]
٦. ٠	(B)	Write a note on Lock				[05]
	(5)	TTITLE & HOLE OH LUCK	or OR	,		[05]
	(B)	Write a note on Reve				[OF]
	(4)	write a note on Neve	rse rugilleerili)	خ ٠		[05]