MAHATMA GANDHI MISSION UNIVERSITY, AURANGABAD

JAWAHARLAL NEHRU ENGINEERING COLLEGE

Mid Semester Examination – March 2024

Course: MCA

Sem: II-Semester

Subject Name: Data Warehousing and Data Mining

Subject Code: 20PMC201D

Max Marks: 20 Marks

Date:- 0**5**/03/2024

Duration:- 1 Hr.

	1. All questions are compulsory	CO	BL	Marks
	A Cuestion 4 carries 3 marks.			6
1 /	Attempt ALL. Question 1,2,3 carries 1 mark and Question 4 carries 3 marks.			
1.	The pivot operation is also known as	CO2	BL2	1
1000	a. Dice b. Rotation c. Rollup d. drilldown	CO2	BL2	1
	OLAP stands for a. Online analytical processing b. Online analysis processing c. Online transaction processing d. Online aggregate processing			
3.	In web mining, is used to know the order in which URLs tend to be	CO2	BL2	1
	accessed a. clustering b. associations c. sequential analysis d. classification	CO2	BL2	3
4.	Explain Text Mining in detail.			
Q.2	Solve Any ONE of the following. Each Question carries 6 marks		BL2	6
(A)	i) Use the z-score normalization methods to normalize the following group of data: 8,10,15,20. (Given Mean= 13.25 and SD= 4.6)	CO1	BLZ	
	ii) Consider the following data (in increasing order) for the attribute age: 13, 15, 16, 16, 19, 20,20, 21, 22, 22, 25, 25, 25, 25, 30, 33, 33, 35, 35, 35, 35, 36, 40, 45, 46, 52, 70: Use smoothing by bin means to smooth the above data, using a bin			
(B)	depth of 3. Explain Data integration and transformation in detail	CO1	BL2	:
Q. 3	Tach Question carries 4 marks		-	2
(A)		CO2		
(B)	g I with cuitable diagram	coa		
(C)		co	2 BL	2

MAHATMA GANDHI MISSION UNIVERSITY, Chh. sambhajinagar

JAWAHARLAL NEHRU ENGINEERING COLLEGE

Mid Semester Examination - MAR 2024

Program: MCA

Sem: II

Course Name: Agile Software Develoopment

Subject Code:20PMC202D

Max Marks: 20 Marks

Date:05/03/2024

Duration:- 1 Hr.

1. All questions are compulsory olve Any TWO of the following. Each Question carries 3marks. Write about the values of agile What is Estimation? Explain it's role in agile product Management Explain the concept of product backlog and sprint backlog	1 3 2,3	BL 2 BL 2 BL 2	Marks 6 3 3
Vrite about the values of agile Vhat is Estimation? Explain it's role in agile product Management	1 3	BL 2	3
Vrite about the values of agile Vhat is Estimation? Explain it's role in agile product Management	3	BL 2	3
What is Estimation? Explain it's role in agile product Management	3	BL 2	3
			1997
xplain the concept of product backlog and sprint backlog	2,3	BL 2	3
olve Any ONE of the following. Each Question carries 6 marks			6
Vrite down 12 principle of Agile	1	BL 2	6
explain the Risk analysis and management in agile	1,2	BL 2	6
olve <u>Any TWO</u> of the following. Each Question carries 4 marks.			8
Explain the scrum artifacts	4	BL 2	4
explain the sprint burndown chart and its significance	2	BL 2	4
Explain the velocity as a metrics.	1,2	BL 2	4
C	xplain the Risk analysis and management in agile blve Any TWO of the following. Each Question carries 4 marks. xplain the scrum artifacts xplain the sprint burndown chart and its significance	xplain the Risk analysis and management in agile 1,2 Any TWO of the following. Each Question carries 4 marks. xplain the scrum artifacts 4 xplain the sprint burndown chart and its significance 2 xplain the velocity as a metrics. 1,2	xplain the Risk analysis and management in agile 1,2 BL 2 Any TWO of the following. Each Question carries 4 marks. xplain the scrum artifacts 4 BL 2 xplain the sprint burndown chart and its significance 2 BL 2 xplain the velocity as a metrics. 1,2 BL 2

Mahatma Gandhi Mission University, Aurangabad.

Jawaharlal Nehru Engineering College

Mid Semester Examination - March 2024

Course - MCA

SEM-II

Subject Name: Machine Learning using Python

Subject Code: 20PMC204E

Max Marks: 20

Date: 06-Mar-2024

Duration: 1:00 Hr

Instructions to the Students:

1. All Questions are compulsory.

							CO	BL	Marks
21.	A. Multiple cl	noice ques	tions :		5 10 10 sec	21 ZD 92 ZD	CO1	BL2	(2)
	Identify is used.		of learnin	g in which l	abeled 1	training data			
			unervise	d learning					
			ed learning						
	197								
	•		ement lea	_					
	•	Unsuper	vised lear	ning				8	
	2. Machin	ne learning	is a subs	et of which	of the f	ollowing.		31	
	•	Artificia	l intellige	nce					
	•	Deep lea	rning						
	-	Data lea							
			the above	3					
	D Calva ans		the above	4			2012 W	535000	2000
	B. Solve any		Multiple	Classes wit	h avame	alo.	COI	BL2	(4)
				Classes wit	ii exaiin	Jie.	l l		
		n PAC with							- 70
Q2.	The state of the s	n the follo	wing ter	ms with sui	table fig	gure (any	CO2	BL2	(6)
	two)							vi.	
		Entropy.							
	22	Activation		5.					
	c) I	nformation	n gain.					g	
	d) I	Hypothesis	Space.						
Q3.	Answe	er any one					CO2	BL2	(8)
888				cplain back	propaga	tion in			
	Artificial Neural Network?								2.2
	2. Explain the concept of Decision Tree learning? Discuss the								
	selecti	on of attrib	ute proce	ss in ID3 al	gorithm	. Consider the	2		
		training in							
				e Humidity	Wind	Play Tennis			
	DI	Sunny	Hot	High	Weak	No			
	D2	Sunny	Hot	High	Strong	No			
	D3 (Overcast	Hot	High	Weak	Yes			
	D4	Rain	Mild	High	Weak	Yes			
	D5	Rain	Cool	Normal	Weak	Yes No		1	
	D6	Rain Overcast	Cool Cool	Normal Normal	1000	Yes			
	Ds Ds	Sunny	Mild	High	Weak	No			
	D9	Sunny	Cool	Normal	Weak	Yes			
	D10	Rain	Mild	Normal	Weak	Yes			
	T 15804910/8	Sunny	Mild	Normal		Yes			
	Dil			High	Strong	Yes			
	(A)	Overcast	Mild		4.0	1000	1		
	D12	Overcast Overcast Rain	Mild Hot Mild	Normal High	Weak Strong	Yes No			

Mahatma Gandhi Mission University Aurangabad

	A Mission University Aur	angabad	1	
	Jawaharlal Nehru Engineering College, Au	rangab	nd	
	Mid Semester Exam March 2024		•••	e 🖣
Clas	s: FYMCA.			and the second
Cou	rse Name: Basic Cloud Computing Essentials Sub	W		Sem:II
Max	Marks:20 Date: 06/03/2024	ject Cod	le: 20PI	MC206E
Instr	uctions to the Students:		Durat	ion:- 1 Hr
(live suitable example wherever necessary.			
Q 1)	Solve on the Question	CO	В	1 16 1
Q 1)	Solve any two questions	- 00	2	L Mark
	i) What is infrastructure as a service? What are advantages of it?	f CO1		3
	ii) Justify the statement: U		3	
	ii) Justify the statement: Hypervisors plays important role in the virtualization concept	CO2		3
Q2)	iii) What is server virtualization? How does it work?	CO2	+	- 3
(2)	Solve any two		2	8
	i) What are various benefits of operating system virtualization?	CO2		4
	ii) Explain memory virtualization with example.	CO2		4
	iii) How Full virtualization is different from Para virtualization	CO2		4
(3)	Solve any one		2	3
	Explain Application virtualization with example	-		
1	2. How input-Output virtualization is beneficial? Explain.	CO2 CO2		3 3
4)	Solve following questions		1	3
	. Select deployment model from the list.	00:		
	a) Identity b) Compliance c) Community d) SOA	CO1		1
	image makes a copy of the entire computer system inside a single container such as a file. a) Software b) System c) Hardware d) All of the above	CO1	-	~1
3 a)	pooling physical resources and presenting them as a	COI		1
4	Real b) Virtual c) Cloud d) None of the mentioned			

Mahatma Gandhi Mission University, Aurangabad

Mid Semester Examination – MAR 2024

Class: FYMCA

Sem: II

Subject Name: Cloud Security & Migration

Subject Code: 20PMC210E

Max Marks: 20

Date:-06-03-24

Duration:- 1 Hr.

Instructions to the Students:

Q. 1	Write answers for the following.(1 marks each)	T		В
			0	1*6=
	I. I am using my face means which type of authentication I am using? a.What you are b.Where you are c.What you know d.What you have	1		2
	2. in stage of data life avalaged at the stage of data life avalaged to the stage of d			
	2. instage of data life cycle, data that is no longer actively used but still has value is stored for long-term retention.	1		2
	3 is an XML-based framework used for exchanging uses	_		
	and service provisioning information among cooperating organizations	,		
	B.SFIVIL C.XACML d.None	1		2
*0	4is the process of converting plain or readable data into an	_		
	amendable format, called ciphertext, using an algorithm and a key	1	2	2
	5refers to the process of creating copies of important data and	-	+	
	a separate location or medium for safekeeping in a separate location or safekeeping in a separate location or medium for safekeeping in	1	2	e l
	garactic lost, damaged, or corrupted	-	-	1
	6. Define confidentiality and integrity			9
.2		1	1	
	Solve Any Two of the following.		+	3 X 2=6
1)	Explain data life cycle			3 A 2-0
,	How will you implement IAM to add to	1	2	
)	How will you implement IAM to add 1 user under JNEC group for accessing EC2 cloud service	-		
)	The state of the s	3	3	
	Explain application level infrastructure security	2	-	
3	Solve Any Two of the following.	2	2	
	Explain availability management under Security Management in the Cloud			4*2=8
-	Explain Ch.	4	2	
)	Explain Changes to privacy risk management and compliance in relation to cloud computing	-		
7		4	2	
	Case study: XYZ Corporation is a company that provides digital marketing services	-		
	to its clients. The company has recently started using a cloud-based platform to			
	store and process client data as names, addresses, and email addresses. XYZ			
	Corporation has implemented a data life.	1	3	
	Corporation has implemented a data life cycle process to manage the data. Write all stages of data life cycle with the above concern.	l.		

Mahatma Gandhi Mission University Aurangabad Jawaharlal Nehru Engineering College, Aurangabad

Mid Semester Exam March 2024

Class: FYMCA.

Sem:II

Course Name: Data Science and Visualization

Subject Code: 20PMC208E

Max Marks:20

Date: 06/03/2024

Duration:- 1 Hr.

Instructions to the Students:

Give suitable example wherever necessary.

0.1	Question	СО	BL	Mark
Q 1)	a) Solve all questions	- 00	BL	6
	Which of the following is not a part of data science process?? I: Model Planning, II: Discovery , III: Operationalize, IV: Communication Building	CO1	2	1
	Business intelligence is used mainly for I: Processing Future data, II: Processing Past data, III: Processing only current data, IV: None Of the above	CO1	4	1
	3. Satellite images is example of I: Structured data, II: Unstructured data, III: Semistructured data IV: None of the mentioned	CO1		1
31	b) Explain process of Business Intelligence.	CO1		3
Q2)	Solve any two		2	8
	 i) What are different Data Analysis techniques available? Give example of Statistical Analysis. 	CO3		4
	ii) What are different things need to check at the time of data acquisition?	CO2		4
	iii) What is API? Explain various types of APIs.	CO2		4
Q3)	Solve any one		2	6
	i) What are different ways to collect data for analysis?	CO2		6
	ii) What are the features which make R programming very popular?	CO2		6