3	a	Differ	ence of li	near and	logistic re	gression?		2	CO1,	L2	1.3.1
3	b	Define	SVM? A	dso disc	uss it work	ing?		5	CO1,	L3	1.3.1
8	c						f Machine learning Algorithm?		CO1,	LI	2.1.2
3	d	estima	te the prol	es:{M,F bability	bability of I) using the value for ne ght=tall an Height short tall short short tall tall tall short	e data give ew instanc d smelly=1	oute (color,leg,,height,,smelly) en in table using these probabilitie no) Species M M M H H H	5	CO1, 2	L2	1.3.1

2	d	Point A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 A13 A14 A15	coordinate	6	CO2	L3	2.1.3
		make 3 cluste	rs. It means we are given K=3 on k-means clustering				
13	a	Difference between	Bagging and Boosting?	2	CO1,	L2	1.3.1
3	b	Explain the simple	Ensembling Technique?	5	CO1,	L3	1.3.1
3	С	Explain the differen	t boosting algorithm?	5	COI,	Ll	2.1.2
3	d	Short notes 1)Out of Bag Eval 2)Random Patches	uation and Random Subspaces	5	CO1,	L2	1.3.1

9 18-10) 19-15 (2-2) + (1-10) 24+25 4+6 +4 49+16-9) 36

1 64 (4) 4 9 25+ 25 2(9) + (5) 4 4 9 64

त्री शंकराचार्य देवतीकत कैउपस निर्मा (स्मीरम्ह)

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An Autonomous Institute

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Approved by AICTR, New Dorni Affiliated in CSV Technical University, Etc. No.

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Class Test 1 Session: EVEN SEM (2022-23)

Subject Code	CS109603
Subject Name	Artificial Intelligence and Machine Learning

Course & Sem: B. Tech. 6th Sem

Sec(C,D)

Max Marks: 40

Min Marks: 14

Time: 2Hours

Branch: CSE

Q	. No.	Questions	M	со	BL	PI
1	a	Difference between Bias and Variance?	2	CO1	L2	1.3.1
1	is	Explain machine learning Life cycle?	6	CO1	L2	1.3.1
1	С	Explain Bais variance Tradeoff along with different combination of Bais and variance?	6	CO1	L2	1.3.1
1	الف	Short Notes: a)Scope of Machine Learning d)Limitation of Machine Learning	6	CO1	L1	2.1.2
2	a	Define Perceptron?	2.	CO2	L3	2.1.3
2	ь	Explain KNN algorithm and it working with different steps. Find the solution to the given question. We have an objective testing with two attribute (Acid Durability) and (Strength) to classify whether a special paper tissue is good or not. Here are four training sampleX1 (Acid Durability) X2(Strength) y(classification) 7	6	CO2	L.2	1.3.1
2	С	Define Perceptron? Explain in brief Perceptron Convergence Theorem?	6	CO2	L2	1.3.1
2	d	Explain different type of Naïve Bayes algorithm?.	6	CO2	L3	2.1.3

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Class Test-II

Session: EVEN SEM (2022-23)

603
cial Intelligence and Machine
(

Course & Sem: B. Tech. 6th Sem

Sec(C,D)

Max Marks: 40

Min Marks: 14

Time: 2Hours

Branch: CSE

Note: Attempt all questions. Parts (a) are compulsory & attempt any two parts from (b), (c) & (d).

Q). lo.		Question	s			M	со	BL	PI
1	a	Define Spe	ectral Clustering	;?			2	COI	L2	1.3.1
1	b	Difference	between Marko	ov Model and Hidd	len Markov I	Model?	6	COI	L2	1.3.1
1	c	Explain dif	ferent type of I	Distribution?			6	COI	L2	1.3.1
		Sl no	AGE	COMPETIT	TYPE	PROFIT				
		1	OLD	YES	S/W	DOWN	7			
		2	OLD	NO	S/W	DOWN				
		3	OLD	NO	H/W	DOWN				
		4	MID	YES	S/W	DOWN				
1		5	MID	YES	H/W	DOWN				
1	d	6	MID	NO	H/W	UP	6	COI	LI	2.1.2
		7	MID	NO	S/W	UP				
		8	NEW	YES	S/W	UP				
		9	NEW	NO	H/W	UP				
		10	NEW	NO	S/W	UP				
		Solve using	Id3 algorithm							
2	a	Write 4 app	lication of clust	tering?			2	CO2	L3	2.1.3
2	b	Explain varie	ous clustering me	thods?			6	CO2	1.2	1.3.1
2	С	Difference	between Aggloi	nerative clustering	and Divisiv	e Clustering?	6	CO2	L2	1.3.1

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2.4.2.6

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2,4,2,6

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SHRI SHANKARACHARYA TECHNICAL CAMPUS

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Class Test 1 Session: EVEN SEM (2022-23)

Subject Code CS102644
Subject Name Cloud Computing

Course: B. Tech.

Sem: 6th (A,B,C,D,IoTCS,DS)

Max Marks: 40

Min Marks: 14

Branch: CSE

Time: 2Hours

Q	. No.	Questions	М	со	BL	PI
1	a	Define the term "Cloud Computing".	2	CO1	L2	1.3.1
1	b	What are the different characteristics of Cloud Computing?	6	CO1	L2 -	1.3.1
1	С	What are the cloud adoption and rudiments methods?	6	CO1	L2	1.3.1
1	d	Expiain Cloud and Dynamic Infrastructure.	6	CO1	L1	2.1.2
2	a	What do you mean by term "as-a-service"?	2	CO2	L3	2.1.3
2	b	Write short notes on (any 2): i) DBaaS (ii) NaaS (ii) BaaS	6	CO2	L2	1.3.1
2	c	Explain briefly Cloud Referencing Model.	6	CO2	L2	1.3.
2	d	Differentiate between Fog Computing and Edge computing.	6	CO2	L3	2,1,
3	a	List the companies who offer cloud service development.	2	CO1,	L2	1.3.1
3	6	Explain different types of cloud.	5	CO1,	L3	1.3.
,	X	Explain the evolution of cloud computing.	5	CO1,	L1	2.1.
3	٩	Explain the most common scenario where a) a private cloud is preferred over a public cloud. b) a public cloud is preferred over a private cloud.	5	CO1,	L2	1.3.1

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Class Test-II Session: EVEN SEM (2022-23)

Subject Code	CS102644
Subject Name	Cloud Computing

Course: B. Tech. Sem: 6th (A, B, C, D)

Max Marks: 40

Min Marks: 14

Time: 2Hours

Branch: CSE

Q. 1	No.	Questions	M	co	BL	PI
1	/a	Define virtualization. Why is virtualization important in cloud computing?	2	COI	L2	1.3.1
1	b	Discuss and Explain Map Reduce model.	6	COI	L2	1.3.1
1	c	What do you mean by Virtualization Hypervisor Management Software?	6	COI	L2	1.3.1
No	d	Write Short notes on(any2): a)VSAN b)VLAN c) Storage Virtualization	6	CO1	LI	2.1.2
) 2	a	What do you mean by cloud ecosystem?	2	CO2	L3	2.1.
2	ь	Explain Security Reference Architecture of cloud with neat diagram.	6	CO2	L2	1.3
2	c	Explain the following terms (any 2): (a) Cloud Analytics b) Testing Under Control (Cloud BPM)	6	CO2	L2	1.3
2	d	Write short notes on : a) Security Challenges of cloud OR b) Virtualization Security Management	6	CO2	L3	2.1.
3	a	Define Inter cloud.	2	CO1,	L2	1.3.
3	ь	Discuss the architecture of cloud federation stack.	5	CO1,	L3	1.3.
3	6	What do you mean by Third party cloud services? Give suitable examples.	5	2	LI	2.1.
3	~	Write short notes on (any 2): a) Hadoop b)Aneka c)Google app engine	5	CO1,	L.2	1.3.



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Junwani, Bhilai-490020 (Chhattisgarh), India
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*NIRF ranking 2020 (250-300) band

	Calculate FIRST() & FOLLOW () for given Gramman E=E*T/T T=T+F/F	-		147	
	F=(E)/id ,	9	C02	13	
	Modify the following CFG so as to make it suitable for Top-down parsing. Construct LL1 parser for modified CFG show moves made by this LL1 parser on Input id+id * id				
2 d	Explain the following terms: a) Specification of Tokens b) Recognition of Tokens	9	C02	El	
	SECTION 3				
Questi on No.	Questions	Mar	03	BL	
a co	What is token counting? Count the tokens in given instructions: For(i=1;i<=n;i++) x=x+y; v=v+x:	~	CO3	2	
3 p	S → a S → T T T T,S Construct the predictive parsing Table For the above	w	603	2	
3 C	Explain classification of parser with suitable diagram.	vo.	CO3	7 %	
3 d	Let G be a Context Free Grammar for which the production Rules are given below: S -> aB bA A -> a aS bAA B -> b bS aBB Drive the string aaabbabbba using the above grammar (using Left Most Derivation and Right most Derivation).	v.	CO3	3	

F	(d)	Write the three address code for	6	2		1,2
1		expression If A < B and C < D then t = 1 else t = 0.			2	
)	a)	Explain Basic block.	2	1	2	1
-	b)	Generate the code sequence for the given expression: d= (a-b) + (a-c) + (a-c).	6	3	2	1,2
2	c)	What are the major issues in code generation?	6	3	2	1,2
)	d)	Define the term dead code elimination and copy propagation.	6	2	2	1,2
	a)	What is Activation Record & Tree?	2	2	1	1,2
	b)	What are different storage allocation strategies Explain them.	5	3	1, 3	1,2
		OR				
		Construct CLR Parsing table for the following grammar:-				
1		S → CC				
		C→cC d				
		What are different parameter passing mechanism explain them.	5	2	1	1,2
	d)	Explain the dynamic memory allocation.	5	1	2	1,

(1) 2, 5, 6, 2 - 06 2 - (1) (13) (10) (13)



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Phone: 0788-2291605, 4088888 Fax: 0788-2291606 E-mail: ssgl@ssgl.edu.in Junwani, Bhilai-490020 (Chhattisgarh), India charya Group of Institutions (Managed by Shri Gangajali Education Scociety, Bhilai)



*NIRF ranking 2020 (250-300) band

BTech (6-th All)

Semester - 6th

Class Test-I

Session 2022-23

Subject Code: CS102601

Max. Marks: 40

Duration: 02 Hrs

Subject Name: compiler design

To understanding the fundamental principles in compiler design CO1

To provide the skills needed for building compilers for various situations that one may encounter in a career in ComputerScience. C02

the underlying machine architecture, the limitations and efficiency of various design After the course a student should have an understanding, based on knowledge of techniques of compilers implementation Note: Attempt Ques. I & Ques. 2. Parts (a) of both the questions is compulsory & attempt any two parts from (b), (c) & (d) of both the questions

			SECTION 1				
Question No.		Questions		Marks	00	BL	I d
I a)	Write differences	between comp	Write differences between compiler and interpreter	2	100	12	12.1
1 b)	What are different phases of detail	1000	compiler? Explain in	9	C02	z ₁	121
10)	Explain compiler construction tools kit.	construction to	ols kit. **	9	C02	E	122
1 d)	Convert the given NFA to DFA:	NFA to DFA:			-	1	1
	Input/State	0					
	q0 (start state)	{40, q1}	d0				
	q1	q2	q1	9	C02	13	1.2.2
	q2	q3	93			_	
	q3 (final state)	e (null character)	q2				

Questi on No.	Questions	Mar		BL	E
2 a)	What is Bootstrapping.	2	C01	12	1.2.2
2b 1	Explain cross compiler with example.	9	C02	13	1.2.2



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*NIRF ranking 2020 (250-300) band

Semester VI (A, B, C, D,	
PROGRAM & BRANCH B.TECH. (Computer Science Engineering)	Compiler Design[CS1026011
Class Test	Max. Time 02 Hours

To provide the skills needed for building compilers for various situations that one CO1 To understanding the fundamental principles in compiler design may encounter in a career in Computer Science. C02

After the course a student should have an understanding, based on knowledge of the design machine architecture, the limitations and efficiency of various techniques of compilers implementation underlying

questions. Part (a) of each question compulsory. Attempt any two parts from remaining parts (b), (c) and (d). INSTRUCTIONS: Attempt all the

			01
Od	1,2	1,2	1,2
CO	1,	3.1	3,1
ВГ	1	8	7
Marks	2	9	9
Questions CO Augusts CO August CO Au	What is a Synthesized attribute?	Translate the following statement: A= - B * (C+D) to Three Address Statements, Quadruple, Direct and Indirect Triple Representation.	Explain the translation schema for the switch case statement. OR Construct an LALR(1) parsing table for the following given grammar: S→ Ba/bBc/dc/bda B→ d
Q. No.	8	3	0
0			-

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3	a	Write about complex objects in R.	2	COS	1.	
		Explain various data structures involved in R programming with	-	CO3	L2	1
3	1	example.	5	COI	1.3	1
		Write short notes on:	5			
3	C	1. library() 2. require()		CO5	LI	2.
3	d	Illustrate the creation of an empty vector and insert the values in	-			
		the vector using for loop.	3	CO6	L2	1

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3.1	3.1	1.3
-	27	2.7
1.2		E
C04	COS	C02
~	000	~
Write about apply, lapply, sapply with suitable examples	Create a data frame with the following structure. EMPID EMPNAME SALARY START DATE Satish 50000 01-11-2013 Rani 75000 05-06-2011 Praveen 130000 27-04-2004 Ramesh 80000 27-04-2004 Write programs for the following: a. Extract two column names using column name. b. Extract the first two rows and then all columns. c. Extract 3rd and 5th row with 2nd and 4th column.	The students taught by 3 different methods gave the following performance(marks): A 19,9,12,16,7,14,11 B 8,13,3,17,15 C 14,11,10,9,15,16 Calculate the analysis of variance.
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Session: EVEN SEM (2022-23)

Class Test - I	Course Name: B Tech (CSE)	Semester: 6th (C, D)
Time: 2 Hours	Subject Name: Data analytics using R Programming	Min Marks: 14
	Subject Code: CS102626	Max Marks: 40

Cou	rse O	outcome:					
CO	1	Learn Fundamentals of R.					
CO	2	Covers how to use different functions in R, how to read data into R, acc	accessing R packages.				
CO	3	Writing R functions, debugging, and organizing data using R functions.					
CO ₄	O4 Cover the Basics of statistical data analysis with examples.						
COS	,	The whole syllabus will give an idea to collect, compile and visualize dat	a using stat	istical fu	nction	is.	
Q. No.		Questions	Marks	со	B L	PI	
1	a	Explain commands: 1. installed.packages() 2. packageDescription()	2	COI	L2	1.3.	
1	ь	Explain Input and Output functions usage: a. scan() b. readLine()	6	CO2	L2	1.3.	
1	0	What are vectors? Explain different ways to create vectors. Give example.	6	CO3	L2	1.3.	
1	d	R has five "atomic" classes of object. What are they? Quote examples.	6	CO3	Ll	2.1.2	
2	a	What would be the output of the following ∞ de? > x <- 1:4 > x > 2	2	CO2	L3	2.1.3	
2	06	How to import packages in R? Give examples.	6	CO4	L2	1.3.1	
2	0	Demonstrate the following using R programming: 1. For loop 2. Repeat loop	6	CO5	L2	1.3.1	
2	d	Explain Special Values functions: NA, Inf and -inf.	6	CO2	L3	2.1.3	



Class Test - 2

Time: 2 Hours

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SHRISHANKARACHARYA TECHNICAL CAMPUS

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(Small Sharpshall Education Bed (5)

(स्वशासी संस्थान)

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Sem: 6th

Min Marks: 14

Max Marks: 40

Session: EVEN SEM (2022-23)

Subject Name: Data analytics using R Programming

Course Name: B Tech (CSE - B + C)

Subject Code: CS102626

lote:	Atte	empt all questions. Parts (a) are compulsory & attempt any two	parts (b)	, (c) an	d (d)		
ours	e O	utcome:					
01	1	Learn Fundamentals of R.					
02	-	Covers how to use different functions in R, how to read data into R, acc	cessing R pa	ckages.			
03		Writing R functions, debugging, and organizing data using R functions.					
04	Cover the Basics of statistical data analysis with examples.						
05		The whole syllabus will give an idea to collect, compile and visualize da	ta using sta	tistical fu	nction	15.	
Q. 1	No.	Questions	Marks	СО	B L	PI	
1	а	Explain cbind() and rbind() with example.	4	COI	L2	1.3.1	
1	ь	Explain melting and casting in detail with example.	8	CO2	L2	1.3.1	
1	C	Explain various R-String Manipulating Text Data as mentioned below: 1. substr(), 2. strsplit() 3. paste() 4. grep() 5. toupper() 6. tolower()	8	CO3	L2	1.3.1	
1	d	Create a 5X4 matrix and perform the following operations on them: 1. Check if the element exist in matrix or not. 2. Arrange the matrix row wise and access the element at [, 3]. 3. Update the matrix by adding 1 row and 1 column. 4. Convert the given matrix to dataframe.	8	CO3	LI	2.1.2	
2	a	Write a brief note on factors.	4	CO2	L3	2.1.3	

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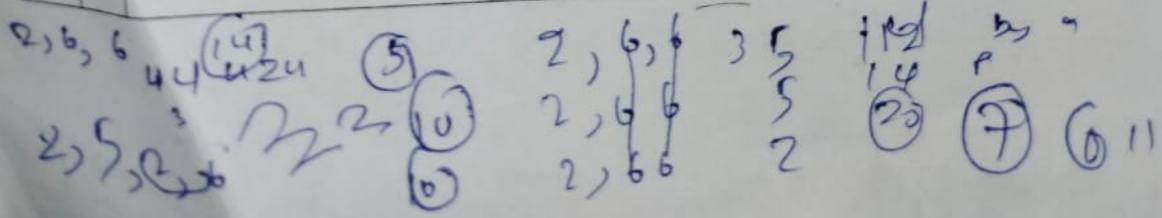
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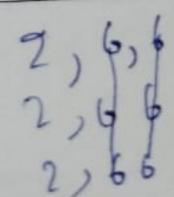
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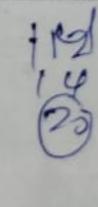
Session: EVEN SEM (2022-23)

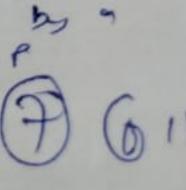
Class Test -II	Course Name: B Tech (CSE - A, B, C, D)	Semester: 6th
Time: 2Hours	Subject Name: Software Engineering and Agile	Min Marks: 14
	Subject Code: CS102602	Max Marks: 40

Cou	rse (Outcome:						
COI		Developing some basic level of software architecture/design						
CO2		Extracting and analysing software requirements specifications for different	ent project	S				
CO3		Select and implement different software development process models						
CO4		Defining the concepts of software quality and reliability on the basis of International quality standards						
CO5		Analysing software risks and risk management strategies	-					
Q.	No.	Questions	Marks	со	BL	PI		
1	a	What is Feasibility Study?	2	CO1	L2	1.3		
1	b	What is DFD? Develop a DFD for creating software for ATM machine	6	CO2	L2	1.3		
1	c	Explain the concept of top down and bottom up design in software engineering.	6	CO3	L2	1.3		
	d	What are coding standards and coding guidelines recommended by many software development organizations? Explain.	6	CO3	Ll	2.1		
2	a	What is Debugging?	2	CO2	L3	2.1		
	ь	Explain the levels of testing.	6	CO4	L2	1.		
	c	Distinguish between verification and validation.	6	CO5	L2	1.		
1	d	What is SRS? Explain characteristics & needs of SRS.	6	CO2	L3	2.		
	a	When to use agile model.	2	CO3	L2	1.		
1	U	Explain Scrum.	. 5	COI	L3	1.		
	c	Explain the phases of extreme Programming.	5	CO5	L1	2.		
1	9 3	Write short notes on i)KANBAN ii)Crystal	5	CO6	L2	1.		









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SHRI SHANKARACHARYA TECHNICAL CAMPUS

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All 8 Tack Season' Accredited by REA, New Self-Accredited by REAC with "A" Brade

स्तरामी संस्थान

Session: EVEN SEM (2022-23)

Class Test -1	Course Name: B Tech (CSE-Deces) A, B, C, D.	Semester: 6th
Time: 2 Hours	Subject Name: Software Engineering and Agile	Min Marks: 14
	Subject Code: CS102602	Max Marks: 40

Cours	e Ou	teome:				Sola		
COI	-	Developing some basic level of software architecture/design		1 30				
		Extracting and analysing software requirements specifications for different	nt projects					
CO3 Select and implement different software development process models								
CO4		Defining the concepts of software quality and reliability on the basis of Inte	rnationa	l quality s	tanda	rds		
CO5		Analysing software risks and risk management strategies						
Q. No. Questions		Questions	Mar ks	co	t.	PI		
	a	What is the unified process?	/ 2	COI	L2	1.3.1		
1	ь	Write down major characteristics of a software. Illustrate with a diagram that the software does not wear out.	6	CO2	L2	1.3.1		
1	c	Explain software engineering as a layered technology.	6	CO3	1.2	1.3.1		
1	d	Write short notes: 1)Evolution process model 2)Waterfall Model	6	CO3	LI	2.1.2		
2	a	Explain Reverse Engineering	2	CO2	1.3	2.1.3		
- 2	b	Explain about the incremental model. List out its merits and demerits.	6	CO4	L2	1.3.		
2	c	demerits. With suitable illustrations explain spiral model evolutionary software development.	6	CO5	L2	1.3.		
2	d	A project size of 200KLOC is to be Developed ,Software Development team has average experience on similar type of project. The project size is not very tight. Calculate the effort, development time, average staff size and productivity of the	10	CO2				
108-	10	Define requirement engineering.	2	CO3	L2	1.3		