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Semester End Examinations Jan - Feb 2021 WEB TECHNOLOGIES

Dur	ration: 3 hrs	. Marks	: 100	
	Answer five full questions choosing one complete question from each module.			
	Module 1			
1 a)	Write about internet, its origin and internet protocol addresses	6	LI	CO1
b)	Explain importance of security in web with public key encryption	7	L2	CO1
c)	Illustrate http protocol with request and response phase	7	L3	CO1
	OR			
2 a)	Write about cell padding and cell spacing with example	6	L1	CO1
b)	Explain about forms with input type text, radio button and checkboxes	7	L2	CO1
c)	Illustrate nested lists with example	7	L3	CO1
2 \	Module 2			
3 a)	Illustrate different text decoration with examples	6	L3	CO2
b)	List different conflict resolution methods	7	L1	CO2
c)	Explain different levels of style sheet	7	L2	CO2
4 a)	OR			427.25.22
b)	Illustrate ordered list with any two sequencing	6	L3	CO2
c)	List different border styles and show how they can be created	7	L1	CO2
C)	Explain simple selector, class selector and generic selectors in CSS	7	L2	CO2
5 a)	Module 3 Analyze different ways to have element access with example		2.0	000
b)	Develop a page using Javascript, a XHTML document that collect USN(the valid format	10	L4	CO3
0)	is: A digit from 1 to 4 followed by two uppercase characters followed by two digits	10	1.0	CO2
	followed by two uppercase character followed by three digits)	10	L6	CO3
	OR			
6 a)	Identify solution to validate given two passwords using Javascript	10	L4	CO3
b)	Develop a page to demonstrate event handling for displaying message on choosing any	10	LT	COS
	radio button option	10	L6	CO3
	Module 4			
7a)	Justify how reacting to mouse click can be created with example	10	L5	CO4
b)	Develop a web page to display message when a mouse button is pressed. Use display on	27241		
	onmousedown and hide on onmouseup	10	L6	CO4
	OR			
8 a)	Justify how color of text and background can be changed for a web application.	10	L5	CO4
b)	Develop page to display using events grab, drag, and drop words	10	L6	CO4
	Module 5			
9 a)	Explain how to read from file in PHP	6	L2	CO5
b)	Write program to show square root, square, cube, quad using for loop	7	L1	CO6
c)	Illustrate sort, asort, ksort for array	7	L3	CO5
	[Father]=>31,[Mother]=>27,[Son]=>8,[Daughter]=>29,[Brother]=>9	,	LJ	003
10-1	OR			
10a)	Explain how to use mysql_query, mysql_num_rows, mysql_num_fields	6	L2	CO5
b)	Write internal structure of array and explain	7	L1	CO6
c)	Illustrate different loop statements available in PHP with example	7	L3	CO5

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New Horizon College of Engineering, Bangalore Autonomous College affiliated to VTU, Accredited by NAAC with 'A' Grade& NBA

Semester End Examinations Jan - Feb 2021 SOFTWARE TESTING

Duration: 3 hrs Max. Marks: 100

Answer five full questions choosing one complete question from each module.

	Module 1	Marks	RBT	CO
1 a)	State the currency converter problem along with its features	5	L1	COI
b)	Draw the flowchart for the traditional implementation of the triangle problem.	5	L1	CO1
c)	Develop the Improved version of next date problem with help of simple version.	10	L3	COI
	OR			001
2 a)	Write the structured implementation of triangle problem.	5	L1	CO1
b)	How faults can be categorized based on severity levels?	5	L1	CO1
c)	Use the SATM problem as an example, draw the various communication screens and describe the problem statement.	10	L3	CO1
	Module 2			
3 a)	Demonstrate the types of equivalence class with examples focused on weak normal and strong robust classes.	10	L2	CO2
b)	Deduce the decision table for next date problem by considering suitable equivalence classes and illustrate using extended entry decision table.	10	L5	CO2
	OR			
4 a)	Illustrate the optimized decision table for triangle problem by considering suitable equivalence classes.	10	L2	CO2
b)	Determine the normal and worst case boundary value test cases for the triangle problem.	10	L5	CO2
	Module 3	10	LIS	CO2
5 a)	How du-path influences the dataflow testing and derive the du paths for stocks, locks sales, commission variables.	10	L6	CO3
b)	Examine the need for basis path testing and analyze the same with McCabe's basis path graph.	10	L4	CO3
	OR			
6 a)	Construct the program graph and DD-paths graphs for triangle problem.	10	L6	CO3
b)	How du-path test coverage metrics helps in forming test cases to analyze the program using structural testing?	10	L4	CO3
	Module 4			
7a)	Categorize and explain different types of software reviews.	10	L3	CO5
b)	Examine isLeap method from NextDate and derive the results.	10	L4	CO4
	OR			004
8 a)	What is mutant? Illustrate the idea of Fuzzing and Fishing creel counts and fault insertion in testing.	10	L3	CO5
b)	Identify and explain the different stages of industrial strength inspection process.	10	L4	CO4
	Module 5	10	L4	CU4
9 a)	Illustrate the different types of TestNG annotations.	10	L3	CO6
b)	Identify and explain the features of TestNG.	10	L4	CO6
	OR	3.7		000
10a)	Illustrate the steps involved in Selenium WebDriver Installation.	10	L3	CO6
b)	Identify and explain the features of Selenium IDE.	10	L4	CO6

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Semester End Examinations Jan - Feb 2021 **SOFTWARE TESTING**

Duration: 3 hrs Max. Marks: 100

Answer five full questions choosing one complete question from each module.

1 ~	Module 1	Marks	RBT	co
1 a) b)	State the currency converter problem along with its features Draw the flowchart for the traditional implementation of the triangle problem.	5	L1	CO1
c)	Develop the Improved version of next date problem with help of simple version.	5	L1	CO1
٠,	OR	10	L3	CO1
2 a)	Write the structured implementation of triangle problem.	5	L1	CO1
b)	How faults can be categorized based on severity levels?	5	L1	COI
c)	Use the SATM problem as an example, draw the various communication screens and describe the problem statement.	10	L3	CO1
	Module 2			
3 a)	Demonstrate the types of equivalence class with examples focused on weak normal and strong robust classes.	10	L2	CO2
b)	Deduce the decision table for next date problem by considering suitable equivalence classes and illustrate using extended entry decision table.	10	L5	CO2
	OR			
4 a)	Illustrate the optimized decision table for triangle problem by considering suitable equivalence classes.	10	L2	CO2
b)	Determine the normal and worst case boundary value test cases for the triangle problem. Module 3	10	L5	CO2
5 a)	How du-path influences the dataflow testing and derive the du paths for stocks, locks sales, commission variables.	10	L6	CO3
b)	Examine the need for basis path testing and analyze the same with McCabe's basis path graph.	10	L4	CO3
	OR			
6 a)	Construct the program graph and DD-paths graphs for triangle problem.	10	L6	CO3
b)	How du-path test coverage metrics helps in forming test cases to analyze the program using structural testing?	10	L4	CO3
	Module 4			
7a)	Categorize and explain different types of software reviews.	10	L3	CO5
b)	Examine isLeap method from NextDate and derive the results. OR	10	L4	CO4
8 a)	What is mutant? Illustrate the idea of Fuzzing and Fishing creel counts and fault insertion in testing.	10	L3	CO5
b)	Identify and explain the different stages of industrial strength inspection process. Module 5	10	L4	CO4
9 a)	Illustrate the different types of TestNG annotations.	10	L3	CO6
b)	Identify and explain the features of TestNG.	10	L4	CO6
	OR			
10a)	Illustrate the steps involved in Selenium WebDriver Installation.	10	L3	CO6
b)	Identify and explain the features of Selenium IDE.	10	L4	CO6

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Semester End Examinations Jan - Feb 2021 MOBILE APPLICATION DEVELOPMENT

	MODILE ATTLICATION DEVELOPMENT			
Dur	ation: 3 hrs	Max. Marks:	100	
	Answer five full questions choosing one complete question from each module			
	Module 1			
1 a)	Discuss the architecture of Android Operating system with a neat diagram.	8	LI	COI
b)	Compare and contrast between Android activities and services.	8	L2	CO1
c)	How to test an android application in different ways using android studio.	4	L3	CO1
	OR			
2 a)	Discuss different android debug tools and profilers.	8	L1	CO1
b)	Explain the following building blocks of Android	8	L2	CO1
	i) Broadcast Receiver			
	ii) ii) Content Provider			
c)	Classify UI Components.	4	L3	CO1
	Module 2			
3 a)	Illustrate the activity life cycle with a diagram.	6	L3	CO2
b)	Differentiate between radio buttons and check boxes.	6	L4	CO2
c)	Create a mobile app simple calculator using radio buttons. Write the java file and draw the	8	L6	CO2
	layout for the same.			
	OR U			
4 a)	Illustrate the uses of linear layout.	6	L3	CO2
b)	Differentiate between Date picker and Time picker.	6	L4	CO2
c)	Create a mobile app unit converter using radio buttons. Write the java file and draw the	8	L6	CO2
	layout for the same. Module 3			
5 a)	Illustrate the use of Android services	6	L3	CO3
b)	Categorize methods of native Android actions	6	L3	CO3
c)	Create a mobile app using Explicit intent to display Leave application. Write the Java file	8	L6	CO3
٠,	and draw layout for the same	0	2.0	COS
	OR			
6 a)	Illustrate the use of notifications	6	L3	CO3
b)	Illustrate the use of Broadcast receiver	6	L3	CO3
c)	Create a mobile app using Implicit intent to display the Gallery and Call buttons. On clicking	g 8	L6	CO3
	these buttons, it should goto the respective pages. Write the Java file and draw layout for the	e		
	same			
	Module 4			
7a)	Illustrate the use of content providers	6	L3	CO4
b)	Identify different methods to store data in Android	7	L4	CO5
c)	Interpret the importance of threads in Android	7	L5	CO4
0 \	OR OR		VA-9-70-2	
8 a)	Illustrate the use of SQLite database	6	L3	CO4
b)	Identify steps to create preferences activity	7	L4	CO5
c)	Interpret the importance of files storage in Android	7	L5	CO4
9 a)	Module 5 Identify the importance of sending SMS using app			001
10.007	Identify the importance of sending SMS using app Identify the importance of building app with Camera	6	L4	C06
b)	identity the importance of building app with Camera	5	L4	C06
c)	Recommend the steps for Signing & Versioning of apps	9	L5	CO6
-,	OR			
10a)	Identify best practices for security and privacy	6	L4	CO6
b)	Identify the importance of building apps with Google maps	5	L4	CO6
c)	Evaluate the various steps used to distribute & Monetize the mobile application	9	L5	CO6

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Semester End Examinations Jan - Feb 2021 **FUNDAMENTALS OF DATA SCIENCE**

Max. Marks: 100 Duration: 3 hrs

Answer five full questions choosing one complete question from each module.

	Module 1			
1 a)	Why data science is important? Show the relevance of the statement with a case study "Data science is moving decision making from gut feeling and guesstimates to better more informed ones driven by data"	10	L1	CO1
b)	Summarize the importance of exploratory data analysis and also role of machine learning and data mining in data science.	10	L2	CO1
	OR			
2 a)	Define and explain the following terminologies i) Machine learning ii) Probabilistic Models iii) Statistical Models iv) Exploratory data analysis v) Artificial intelligence	10	Li	CO1
b)	Summarize the steps to be followed in order to find the most common keywords people use in their job description. Assume the job descriptions have been scraped from the website indeed.com for companies actively hiring data scientists. Module 2	10	L2	CO1
3 a)	For the given data set, exploratory data analysis revealed that there are duplicate entries in the text field of the given dataset. Apply your knowledge to identify the rows with duplicate text.	10	L3	CO2

	business_id	date	review_id	stars	text	type	user_id	cool	usetul	tunny
0	9yKzy9PApeiPPOUJEtrivkg	2011- 01-26	fWKvX83p0-ka4JS3dc6E5A	5	My wife took me here on my birthday for breakf	review	rLtl8ZkDX5vH5nAx9C3q5Q	2	5	0
1	ZRJwVLyzEJq1VAlhDhYiow	2011- 07-27	IJZ33sJrzXqU-0X6U8NwyA	5	I have no idea why some people give bad review	review	0a2KyEL0d3Yb1V6aivbluQ	0	0	0
2	6oRAC4uyJCsJI1X0WZpVSA	2012- 06-14	IESLBzqUCLdSzSqm0eCSxQ	4	love the gyro plate. Rice is so good and I als	review	0hT2KtfLiobPvh6cDC8JQg	0	1	0
3	_1QQZul4zZOyFCvXc0o6Vg	2010- 05-27	G-WvGalSbqqaMHINnByodA	5	Rosie, Dakota, and I LOVE Chaparral Dog Park!	review	uZetl9T0NcROGOyFfughhg	1	2	0
4	6ozycU1RpktNG2-1BroVtw	2012- 01-05	1uJFq2r5QUG_6ExMRCaGw	5	General Manager Scott Petello is a good eggf!!	review	vYmM4KTsC8ZfQBg- j5MWkw	0	0	0

- Analyze each of the following data elements as N, nominal; O, ordinal; or I/R,
 L4 CO2 interval/ratio data:
 - i). zip code of your local address
 - ii) letter grade you will receive in this class
 - iii) country you were born in
 - iv) amount of money you have with you
 - v) mileage (miles per gallon) your car gets

OR

4 a) For the given data, exploratory data revealed that there are missing data values in the 'Age' column of the given dataset. Apply your knowledge to find missing values and also the steps for replacing the missing values with the mean value for the attribute.

	Survived	Pclass	Name	Sex	Age
0	0	3	Braund, Mr. Owen Harris	male	22
1	1	1	Cumings, Mrs. John Bradley (Florence Briggs Th	female	38
2	1	3	Heikkinen, Miss. Laina	female	26
3	1	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35
4	0	3	Allen, Mr. William Henry	male	35

b)	What is data pre-processing? Examine the steps in data pre-processing that can be used on the given tweet and also explain the steps. "This Wednesday morn, are	10	L4	CO2
	you early to rise? Then look East. The Crescent Moon joins Venus & Saturn.			
	Afloat in the dawn skies."			
	Module 3			
5 a)	A company buys 70% of its computers from company X and 30% from company	10	L3	CO3
	Y. Company X produces 1 faulty computer per 5 computers and Company Y			
	produces 1 faulty computer per 20 computers. A computer is found faulty, apply			
	Bayes theorem to examine the chances that it was bought from company X. Give			
	proper reasons for each part of your answer.			
b)	Compare and contrast discrete and continuous random variables	10	L4	CO4
	OR			
6 a)	Identify the steps in the process of conducting a hypothesis test. Illustrate how	10	L3	CO3
	hypothesis test can be concluded using one sample t test.			
b)	In the olden days there was a probability of 0.8 of success in any attempt to make	10	L4	CO4
	a telephone call. Let X denotes the success in getting through.			
	i) Analyze the problem to come to a conclusion regarding the type of random			
	variable X. Give valid proof to defend your answers.			
	ii) Examine the probability of having 7 successes in 10 attempts.			
	iii) Analyze the expected value and variance of the variable X			
	Module 4			
7a)	Determine the procedure to be followed during the decision tree construction using an example	10	L5	CO5
b)	Consider the following data table, Construct a data model using Naïve Bayes classifier to predict whether a Red colour, Domestic SUV would be stolen or not	10	L6	CO5

COLOR	TYPE	ORIGIN	STOLEN?				
Red	Sports	Domestic	Yes				
Red	Sports	Domestic	No				
Red	Sports	Domestic	Yes				
Yellow	Sports	Domestic	No				
Yellow	Sports	Imported	Yes				
Yellow	SUV	Imported	No				
Yellow	SUV	Imported	Yes				
Yellow	SUV	Domestic	No				
Red	SUV	Imported	No				
Red	Sports	Imported	Yes				
	Controlled		OR				
Interpret the in	portance and d	efend the proced	ure of SVM alg	gorithm in	10	L5	CO5
		lassifiers using a					
				s algorithm. Use	10	L6	CO5
				clusters: A1=(2,10			
				, A8=(4,9). Suppo			
				A7. Run the k-mea	ins		
algorithm for 1	epoch and show	w updated cluster	rs and the new	centroid.			
			dule 5				
		n verbal commu			10	L3	CO6
Compare line graphs, bar charts and histograms with proper example and diagram						L4	CO6

8 a)

b)

9 a) b) OR

10a

b)

Identify the why / how/ what strategy of presenting

Compare correlation and causation with an example

10

L3

CO6

CO6

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Semester End Examinations Jan - Feb 2021 ARTIFICIAL INTELLIGENCE

	ARTIFICIAL INTELLIGENCE			
Du	ration: 3 hrs	Max.	Marks: 1	00
	Answer five full questions choosing one complete question from each me			
	Module 1	Marks	RBT	CO
1 a)	Define AI. List out the disciplines involved in AI and also provide real time applications of AI	10	L1	CO1
b)	Explain the state space representation by using water jug problem OR	10	L2	CO1
2 a)	Define heuristic search and also explain generate and test algorithm and simulated annealing algorithm	10	L1	CO1
b)	Demonstrate different characteristics of problems with example	10	L2	CO1
	Module 2		22	COI
3 a)	How would you construct the sentence using first order logic	10	L3	CO2
b)	Analyze the inference rules for reasoning patterns in propositional logic	10	L4	CO2
	OR		2.4	CO2
4 a)	Identify the steps involved in knowledge engineering process to construct the knowledgebase with example	10	L3	CO2
b)	Analyze the steps to convert the wffs to Clause form with proper example	10	L4	CO2
	Module 3			
5 a)	Apply non monotonic reasoning for ABC murder story example	10	L3	CO3
b)	Identify the syntax of FOL and also write about quantifiers available in FOL	10	L6	CO3
	OR	10	LU	CO3
6 a)	How will you apply first order logic in kinship domain	10	L3	CO3
b)	Decide who has committed crime in ABC murder story using JTMS	10	L6	CO3
	Module 4	10	Lo	COS
7a)	How will you interpret the complex facts using conceptual dependency? Explain with minimum 5 different examples.	10	L5	CO4
b)	Max went out to a shopping mall last night. When he paid for it he noticed that the he was running out money and left the ATM card at home itself. Analyze the scenes involved in the script	10	L4	CO4
	OR			
8 a)	Justify your answer to represent partitioned semantic networks.	10	L5	CO4
b)	Analyze the concept of conceptual dependency with the set of primitive acts, primitive categories and rules with proper examples	10	L4	CO4
	Module 5			
9 a)	Illustrate the planning concept with the help of block world problem	10	L3	CO5
b)	Analyze all the methods to improve the performance of minimax procedure. OR	10	L4	CO6
10a)	How will you apply iterative deepening for single agent heuristic search? Explain with the algorithm	10	L3	CO5
b)	Compare constraint posting and state space search.	10	L4	CO6

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Semester End Examinations Jan/Feb 2021

INTERNET OF THINGS

Duration: 3 hrs Max. Marks: 100 Answer five full questions choosing one complete question from each module. Module 1 Define IOT and Digitization. Describe the impact of IOT 1 a) CO1 b) Explain the challenges and problems faced by IOT CO₁ Draw a neat diagram of one M2M IOT standardized architecture and discuss the c) L3 CO₁ architecture... OR List the components of the core IoT Functional stack that have to work together for 2 a) L1 CO₁ an IoT network to be operational Discuss briefly Simplified Architecture of IOT b) 5 L2 CO₁ Explain how the unique requirements of IoT to distribute data management 10 L3 c) CO₁ throughout the IoT system is solve using Fog and Edge computing Module 2 Explain the basic building blocks of IOT. How are they classified? Give examples 5 L2 3 a) CO₂ for each. Describe the communication criterion for connecting and communication of smart b) L1 CO₂ objects c) Identify the topology schemes dominant based on the access technologies available CO₂ for connecting IoT devices and explain. OR 4 a) Discuss the Protocol Stacks Utilizing IEEE 802.15.4 5 L2 CO2 b) Draw and describe in brief LoRaWAN Architecture L1 CO₂ With the protocol stack of Zigbee IP and frame formats explain the PHY and MAC c) L4 10 CO₂ layer Module 3 Identify the key advantages of the IP suite as a solution to the requirements for 5 a) L3 CO₃ Internet of Things Categorize various factors between CoAP and MQTT b) L3 CO₃ Analyze why optimization is necessary for IP. c) L4 CO₃ OR 6 a) Use 6TiSCH architecture to define four schedule management mechanism and three L3 CO₃ forwarding models

		-		
b)	Categorize the IoT Protocol Stack Utilizing 6LoWPAN and an IP Protocol Stack	6	L3	CO3
c)	Identify the main factors applicable to IPv4 and IPv6 to support in an IoT solution.	8	L4	CO3
	Module 4			
7a)	Identify major types of machine learning that are used to gain business insights From IoT data.	10	L4	CO4
b)	Illustrate the three stages in streaming flows of data in motion and the functions of edge analytics processing unit.	10	L3	CO4
	OR			
8 a)	In the IoT world examine some of the most common technologies used in big data and discuss them.	10	L4	CO4
b)	Illustrate the frame works of Formal Risk Analysis Structures for securing the operational environment.	10	L3	CO4
100	Module 5 MODEL MEDITION OF THE PROPERTY OF THE	811		
9 a)	Justify how IoT technologies can be leveraged to improve the lives of citizens and the efficient management of urban centers.	10	L5	CO5
b)	Design a circuit and develop a program for Arduino/ Raspberry Pi to interface temperature /humidity Sensor(DHT11) to record room temperature.	10	L6	CO5
	OR TWO MANUAL CONTINUES (Plant			
10a)	Choose an IoT architecture to make Smart city. Justify the chosen architecture with suitable explanation.	10	L5	CO5
b)	Design a circuit and develop a program to interface stepper motor to interface with Arduino/ Raspberry	10	L6	CO5

CSE746

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Semester End Examinations Jan - Feb 2021 **DATA ANALYTICS**

Max. Marks: 100 Duration: 3 hrs

		Answer five full questions choosing one complete question from each me	odule.		
		Module 1	Marks	RBT	CO
1	a)	Describe snowflake schema for Microsoft company / Indigo airlines.	10	L1	CO1
	b)	Explain types of Data Analytics	10	L2	CO1
		OR			
2	a)	Write a note on fundamentals of data analytics.	10	Li	CO1
	b)	Explain Characteristics of Dimensional modeling	10	L2	CO1
		Module 2	10	L3	CO2
3	a)	Illustrate aggregate functions with examples	10	L3	CO2
	b)	Illustrate the concept of advanced compression. OR	10	Lo	002
	-	Draw the process of high availability in vertica with example	10	L3	CO2
4	a) b)	Illustrate the various types of SQL with commands and description	10	L3	CO2
		Module 3			
5	a)	Describe Merging and Partitioning in HP Vertica	10	L1	CO3
	b)	Differentiate between different projection types	10	L2	CO4
	-,	OR			
6	a)	Find the importance of Database Designer and draw it with suitable examples	10	L1	CO3
	b)	Explain different Projection types with suitable examples	10	L2	CO4
		Module 4	10		COF
7	a)	Analyze the different process of web analytics	10 10	L4 L5	CO5
	b)	Evaluate the different steps of closed loop model with an example OR	10	LS	COS
8	a)	Examine the methods involved in Marketing Analytics in detail.	10	L4	CO5
	b)	Interpret the different reports generated on Google Analytics.	10	L5	C05
		Module 5			
9:	a)	Identify the different steps to be followed in marketing Analytics	10	L4	CO6
b)	Evaluate the different strategies followed by Xerox corporation to become a	10	L5	CO6
		leading success company.			
		OR			
1	0a)	Analyze the different steps in segmenting the audience	10	L4	CO6
	b)	Recommend the different types of steps to formulate the audience and	10	L5	CO6
		describe any three steps in details with an example			