

(UGC AUTONOMOUS)

B.Tech VI Semester Supplementary Examinations December-2022

Course Name: WEB TECHNOLOGIES

Da	(Common for CSE & IT) ate: 05.12.2022 FN Time: 3 hours	Iax.Marks:	70
	(Note: Assume suitable data if necessary) PART-A		
	Answer all TEN questions (Compulsory)		
	Each question carries TWO marks.	10x2=20	0M
. V	What is PHP? What are its applications?		2 N
2. E	numerate few Built-in functions in PHP.		2 N
3. V	What are different types of Lists in HTML?		2 N
	Vhat is DOM?		2 N
5. V	Vhat is a Session?		2 N
6. L	ist out different ways to connect to a Database using Servlets.		2 N
	What are the problems with Servlets?		
	/rite any 3 html tags with example.		2 N
	hat is Scripting? Can Java Script used for Server Programming?		2 N
	hat are the Scoping rules for Java Script?		2 N
	see		2 N
	PART-B		
An	swer the following. Each question carries TEN Marks.	5x10=50	M
1.A).	How to handle Sessions and Cookies in PHP?		10N
	OR		
1. B).	Explain the predefined and user-defined functions in PHP with example.	1	10N
2. A).	What are HTML Forms? Differentiate between GET and POST methods. D HTML form to read the student details.	esign a	10M
	OR		
2. B).	Explain in detail about XML tags, attributes and values.	1	10M
3. A).	Illustrate and explain the Life Cycle of a Servlet.		101
	OR		10M
3. B).	How to handle HTTP request and response in a Servlet? Explain with example.	1	0M
4. A).	Explain how Sessions are handled in JSP.		
	OR	1	0M
ł. B).	How connections to Database are made using JSP? Explain with example.	1	0M
i. A).	Explain the Process of Form Validation in Java Script with an example.		0.
	OR	1	0M
. B).	How Event Handling takes place in Java Script? Illustrate with an example.	1	0M



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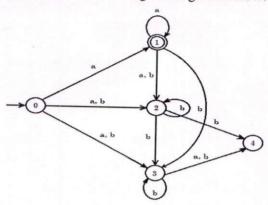
Course Name: COMPILER DESIGN

(Note: Assume suitable data if necessary) PART-A Answer all TEN questions (Compulsory)	
Each question carries TWO marks.	x2=20M
1. What is Input Buffering? What is Sentinels?	2 M
2. What do you mean by Lexeme, Tokens and Patterns?	2 M
3. What do you mean by augmented grammar?	2 M
4. What is handle? Give example.	2 M
5. What is parse tree and annotated parse tree?	2 M
6. What do you mean by dependency graph?	2 M
7. What do you mean by three address code? Give an example?	2 M
8. What is CFG? Give example.	2 M
9. Why register allocation algorithms are important?	2 M
10. What do you mean by Partial redundancy elimination?	2 M
PART-B Answer the following. Each question carries TEN Marks. 5x1	0=50M
11.A). i) In the process of compilation consider the following statement X=a + b * c Explai what will be the output at each stages of compilation.	
ii) Differentiate: Compiler and Interpreter. OR	4M
11. B). i) What do you mean by language processing system? Explain with diagram	EM.
ii) Explain different cousins of compilers like assemblers, linker, loader, macro-processo etc.	5M r 5M
12. A). i) What are the conditions a grammar to be LL(1)	2M
ii) Consider the grammar: S-> AaAb BbBa A-> € B-> €	4M
Check the above grammar is LL(1) or not? iii) Draw the parse table	

(P.T.O..)

4M

12. B). What do you mean by NFA and DFA? Explain with suitable examples. Convert the following NFA to the equivalent DFA: Diagram is given below:



13. A)	i) What is terminal table and literal table?	
	ii) What is dependency Graph? Give example.	2M
	iii) What do you mean by Synthesized attribute and inherited attributes?	2M
	iv) What do you mean by S. Attributed and I are it and innerited attributes?	3M
	iv) What do you mean by S Attributed and L attributed definition?	3M
13. B).	OR	
13. 6).	y most rable and its organization	3M
	ii) Explain Activation record	2M
	iii) What is activation tree	2M
	iv) Explain Nesting Depth Approach.	3M
14. A).	i) Generate the three address code for the following code:	
	while(A <c and="" b="">D)do</c>	5M
	if A=1 then C=C+1	
	else	
	while A<=D do	
	ii) Construct DAC 6 at a 6 ii	
	ii) Construct DAG for the following basic block: d: = b+c	
	e := a + b	5M
	b: =b*c	JIVI
	a := e-d.	
14. B).	OR	
14. D).	i) What do you mean by Basic Block and CFG?	4M
	ii) Consider the following expression and represent it into quadruple, triple, indirect three address mode representation: $v = (a+b)*(a+d)+(a+d$	6M
	address mode representation: $x=(a+b)*(c+d)+(a+b+c)$	OIVI
15. A).	What do you mean by machine dependent and months in the	
	What do you mean by machine dependent and machine independent optimization?	10M
15. B).	OR	
15. b).	Discuss about the below topics:	
	i) Peephole Optimization	5M
	ii) Partial Redundancy Elimination	5M
		JIVI



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B.Tech VI Semester Supplementary Examinations December-2022

Course Name: SCRIPTING LANGUAGES

	(Common for CSE & IT) Date: 09.12.2022 FN Time: 3 hours Max.Ma	ulsa. 70
	Time: 3 hours Max.Ma (Note: Assume suitable data if necessary)	rks: 70
	PART-A	
	Answer all TEN questions (Compulsory) Each question carries TWO marks. 10x	2=20M
		2-201VI
1.	Why is Ruby known as a Language of Flexibility?	2 M
2.	List some features of Ruby.	2 M
3.	What are class libraries used in ruby?	2 M
4.	Name the three levels of access of control for ruby methods.	2 M
5.	What is PERL?	2 M
6.	How many types of primary Data types in PERL give any two syntax?	2 M
7.	What is Ruby package manager?	2 M
8.	What is eval function in Perl?	2 M
9.	Define TCL. How it works.	2 M
10.	Differentiate between TCL and TK.	2 M
	PART-B	
-	Answer the following. Each question carries TEN Marks. 5x10	0=50M
11.A). Explain Ruby data type in detail with example.	10M
	OR	10111
11. B). Explain the structure of ruby program. Write a ruby program to print "Hello World".	10M
12. A). What is the function of garbage collection in ruby on rail? Explain.	10M
	OR	
12. B). Give detail description on embedding a ruby interpreter.	10M
13. A). What are the advantages of Scripting Languages.	10M
	OR	
13. B). Explain Control statements in Perl with Example.	10M
14. A). Explain dirty hand internet exploration.	10M
	OR	
14. B)	 Write a program to concatenate the \$firststring and \$secondstring and result of these strings should be separated by a single space. 	10M
15. A). Briefly explain TCL structure in detail.	10M
	OR	TOW
15. B)		10M

H.T No: R18 Course Code: A30558



CMR COLLEGE OF ENGINEERING & TECHNOLOGY

(UGC AUTONOMOUS) B.Tech VI Semester Supplementary Examinations December-2022

	Course Name: DATA	VISUALIZATION	
	Date: 12.12.2022 FN	(Computer Science & Engineering)	
	Date: 12.12.2022 FN	Time: 3 hours Max.Mar (Note: Assume suitable data if necessary)	ks: 70
		PART-A	
		Answer all TEN questions (Compulsory)	
		Each question carries TWO marks. 10x2	=20M
1.		covery pipeline with its components.	2 M
2.		a used in data visualization.	2 M
3.	Identify the approaches t	hat are used to visualize volume data.	2 M
4.	Define geospatial data.		2 N
5.	Give an example of time	-oriented data.	2 M
6.	What is a heatmap?		2 M
7.	Define a triconnected gra		2 M
8.	Compare the three levels		2 M
9.		nes for effective use of color in visualization.	2 M
10.	Define a visual mapping.		2 M
	A manuary than C. H	PART-B	
	Answer the following. Ea	ach question carries TEN Marks. 5x10=	=50M
11.A	 Describe the steps is dimension reduction. 	nvolved in applying principal component analysis to accomplish	10M
		OR	
11. B). Explain eight visual v	ariables with example.	10M
12. A). Illustrate how line into its algorithmic steps a	egral convolution approach is used for vector field visualization with nd suitable example.	10M
		OR	
12. B	 Explain the classifica geospatial data. 	tion of map projections based on the surfaces used for visualizing	10M
13. A). Illustrate how will you	ovisualize time-oriented data with an example. OR	10M
13. B)	. Explain the point-base	ed techniques used for visualizing multivariate data.	10M
14. A)). Summarize the non-sp	ace filling methods of displaying hierarchical structures. OR	10M
14. B)	. Explain the various type	pes of single document visualizations.	10M
15. A)		ms faced while designing effective visualizations. OR	10M
15. B)	. Illustrate the steps invo	olved in designing visualizations for text analysis.	10M

H.T No: R18 Course Code: A30532



CMR COLLEGE OF ENGINEERING & TECHNOLOGY

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	B.Tech VI Semester Supplementary Examinations December-2022	
	Course Name: SOFTWARE PROJECT MANAGEMENT (Common for CSE & IT)	
	Date: 12.12.2022 FN Time: 3 hours Max.Max	rks: 70
	(Note: Assume suitable data if necessary) PART-A	
	Answer all TEN questions (Compulsory)	2=20M
1.	Summarize any four characteristics of a successful object-oriented project.	2 M
2.	List out important trends in improving software economics.	2 M
3.	List out the seven top level workflows.	2 M
4.	Outline a typical vision document.	2 M
5.	Summarize the information structure of a WBS.	2 M
6.	List out various stakeholders involved in major milestone.	2 M
7.	Outline the basic fields of software change order.	2 M
8.	Illustrate a typical project release sequence for a large-scale project.	2 M
9.	Define the term MTBF.	2 M
10.	Summarize the four graphical objects required for a software project manager role.	2 M
		2 141
	PART-B Answer the following. Each question carries TEN Marks. 5x10=	
		=50M
11.A	 Outline the five improvements to the waterfall model that would eliminate most of the development risks. 	10M
11.	OR	
11. E	 Build and explain the relationship among the five basic parameters that are used in most software cost models. 	10M
12. A	A). Analyze how requirements, design, implementation and deployment artifacts which are part of engineering sets evolve over time.	10M
12 D	OR	
12. B). What does each of the views (design, process, component, deployment) address in the software architecture? Explain with an example.	10M
13. A). Identify various stages in an Iteration planning process and briefly explain about them. OR	10M
13. B		1014
14. A		10M 10M
	OR	
14. B)		10M

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15. A). Explain the four quality indicators that are required for the measurement of software 10M change order.

OR

15. B). Explain the two primary dimensions of process variability.

10M



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B.Tech VI Semester Supplementary Examinations December-2022

	Course Name: ENTR	EPRENEURSHIP	
		(Computer Science & Engineering)	
	Date: 16.12.2022 FN	Time: 3 hours Max.Mar	ks: 70
		(Note: Assume suitable data if necessary) PART-A	
		Answer all TEN questions (Compulsory) Each question carries TWO marks. 10x2	2=20M
1.	Define entrepreneur.		2 M
2.	Name four Indian entrep	reneurs.	2 M
3.	Who is corporate entrepr	reneur?	2 M
4.	Write about entrepreneur	rial ego.	2 M
5.	What is franchising?		2 M
6.	What is entrepreneurial of	creativity?	2 M
7.	Define patent.		2 M
8.	What is trademark?		2 M
9.	What are strategic action	s?	2 M
10.	What do you mean by bu	siness stabilization?	2 M
		PART-B	
-	Answer the following. Ea	ach question carries TEN Marks. 5x10	=50M
11.A). Discuss the evolution	of entrepreneurship in India.	10M
		OR	
11. B). Explain twenty-first-c	century trends in entrepreneurship.	10M
12. A). Write about the impor	rtance of studying an entrepreneurial mindset.	10M
		OR	TOIVI
12. B). Determine how corpo	rate entrepreneurship can be sustained.	10M
13. A	 List out the advantage in India. 	es and disadvantages of Franchising in India. Name some franchisees	10M
		OR	
13. B)	. How do entrepreneurs	launch their new ventures? Explain.	10M
14. A)). What are the legal cha	llenges of entrepreneurship business? Elaborate.	10M
14 D)	Determine the state of	OR	
14. B)	. Determine the new cha	allenges of new venture start-up in India.	10M
15. A)	. Discuss strategic persp	pectives in entrepreneurship development.	10M
		OR	TOIVI
15. B)	. Business stabilization	is necessary for building startups. Explain.	10M