CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)
B.Tech VI Semester Regular/Supplementary Examinations May-2023

Course Name: WEB TECHNOLOGIES

(Common for CSE & IT)

Date: 08.05.2023 AN   Time: 3 hours   Max.Marks: 70

(Note: Assume suitable data if necessary)

PART-A
Answer all TEN questions (Compulsory)
Each question carries TWO marks.   10x2=20M

1.	What are the data types supported by PHP?	2 M
2.	Enumerate few Built-in functions in PHP.	2 M
3.	What is XML? List characteristic features of XML.	2 M
4.	What are the different types of Lists in HTML?	2 M
5.	Mention some uses of servlet.	2 M
6.	When a Servlet accepts a call from a client, it receives two objects. What are they?	2 M
7.	Define JSP. Mention its use.	2 M
8.	What is the purpose of using Cookies? How they are created?	2 M
9.	What is the scope of variables in JavaScript?	2 M
10.	What is an 'event' in JavaScript?	2 M

PART-B
Answer the following. Each question carries TEN Marks.   5x10=50M

11.A).	Explain database connectivity in PHP with reference to MYSQL.	10M
	OR	
11. B).	How to handle Sessions and Cookies in PHP?	10M
12. A).	What are HTML Forms? Differentiate between GET and POST methods. Design a HTML form to read student details.	10M
	OR	
12. B).	Explain in detail how XML data is parsed with an example.	10M
13. A).	Illustrate and explain the Life Cycle of a Servlet.	10M
	OR	
13. B).	Demonstrate the use of cookies in servlets with an example.	10M
14. A).	How to access a database from a JSP? Explain in detail.	10M
	OR	
14. B).	Explain how Sessions are handled in JSP.	10M
15. A).	What is Java Script? What are the features of Java Script?	10M
	OR	
15. B).	Explain the process of Form Validation in Java Script with an example.	10M

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CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)
B.Tech VI Semester Regular/Supplementary Examinations May-2023
Course Name: DATA MINING

(Information Technology)

Date: 10.05.2023 AN   Time: 3 hours   Max.Marks: 70

(Note: Assume suitable data if necessary)
PART-A
Answer all TEN questions (Compulsory)
Each question carries TWO marks.   10x2=20M

1. What is descriptive and predictive data mining?   2 M
2. Every Ordinal attribute is a nominal? Justify.   2 M
3. Define correlation and its use in association mining.   2 M
4. How Rule Generation differs with Frequent Item set Generation?   2 M
5. What are splitting and stopping criteria in Decision Tree Induction?   2 M
6. Infer Bayes theorem.   2 M
7. Why Clustering is called unsupervised learning technique?   2 M
8. Why Outlier Analysis?   2 M
9. Recall the characteristics of a data stream.   2 M
10. List some applications of text mining.   2 M

PART-B
Answer the following. Each question carries TEN Marks.   5x10=50M

11.A). Describe each of the Data Mining tasks with an example. Explain about Data cleaning.   10M

OR

11. B). Suppose that the data for analysis includes Price (in dollars) attribute. The Price values are 200, 300, 400, 600, and 1000. The manager insists for normalization of the data for better results. So, Normalize the data using the following methods.   10M
i) Min-Max normalization by setting min=0 and max=1
ii) z-score normalization
iii) Normalization by decimal scaling.

12. A). i) What is association mining? Illustrate on different types of association mining rules.   5M
ii) Summarize on Constraint based Association mining.   5M

OR

12. B). Apply Apriori Algorithm on the following given transaction data set. Generate frequent patterns and rules from this. Consider the values as Support=22% and Confidence= 70%   10M

TID	Items
1	I1,I2,I5
2	I2,I4
3	I2,I3
4	I1,I2,I4
5	I1,I3
6	I2,I3
7	I1,I3
8	I1,I2,I3,I5
9	I1,I2,I3

(P.T.O..)

13. A). Analyze the general idea to classification as a two step process with an example? Examine   10M
about classification accuracy.

<div align="center">OR</div>

13. B). i) Why are decision trees so popular? Discuss.
ii) Discuss in brief about Lazy Learner.   5M
                                             5M

14. A). Evaluate Clustering Steps using k-Means on the following data:
A1(2, 10), A2(2, 5), A3(8, 4), A4(5, 8), A5(7, 5), A6(6, 4), A7(1, 2), A8(4, 9)   10M

<div align="center">OR</div>

14. B). Illustrate in detail about Hierarchical Clustering Methods with a neat sketch?   10M

15. A). What are Data Streams in Data Mining? How to mine time series Data? Explain.   10M

<div align="center">OR</div>

15. B). Explain about Spatial Data Mining in detail.   10M

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CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)
B.Tech VI Semester Regular/Supplementary Examinations May-2023
Course Name: SCRIPTING LANGUAGES
(Common for CSE & IT)

Date: 12.05.2023 AN   Time: 3 hours   Max.Marks: 70

(Note: Assume suitable data if necessary)

PART-A
Answer all TEN questions (Compulsory)
Each question carries TWO marks.   10x2=20M

1.	What are the differences between nil and false in Ruby?	2 M
2.	What are class libraries in Ruby?	2 M
3.	Write about ALLOC_N routine.	2 M
4.	Write the steps for creating extensions.	2 M
5.	Give a note on Running and Debugging Perl.	2 M
6.	What are the string operators available in Perl?	2 M
7.	Define eval function and syntax in PERL.	2 M
8.	What is the purpose of #!Directive in PERL?	2 M
9.	List out all format flags in TCL.	2 M
10.	Write about regular expression command in TCL.	2 M

PART-B
Answer the following. Each question carries TEN Marks.   5x10=50M

11.A).	Explain in detail about SOAP based web services using Ruby.	10M
	OR	
11. B).	Create a simple stop watch program to demonstrate a real-world use of Ruby Tk.	10M
12. A).	Explain about embedded Ruby API.	10M
	OR	
12. B).	Explain about Ruby Interpreter with its options.	10M
13. A).	Explain various built-in operators and pattern matching modifiers in Perl.	10M
	OR	
13. B).	Illustrate Control Structures with an example in Perl.	10M
14. A).	What are the security Issues in Perl?	10M
	OR	
14. B).	Give a brief account on Dirty Hands Internet Programming.	10M
15. A).	Design a TCL application to find a file by name.	10M
	OR	
15. B).	Describe in detail about TCL data structures. Discuss about event and binding in TK.	10M

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CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)
B.Tech VI Semester Regular/Supplementary Examinations May-2023
Course Name: SOFTWARE PROJECT MANAGEMENT
(Common for CSE & IT)

Date: 15.05.2023 AN   Time: 3 hours   Max.Marks: 70

(Note: Assume suitable data if necessary)
PART-A
Answer all TEN questions (Compulsory)
Each question carries TWO marks.   10x2=20M

1. What is software project management?   2 M
2. List the phases of water fall model for a large-scale system.   2 M
3. What are the primary objectives of construction phase?   2 M
4. Describe the importance of software architecture.   2 M
5. Define progmatic planning.   2 M
6. Discuss about check points of the process.   2 M
7. Explain the role of project review authority (PRA).   2 M
8. Categorize the people involved in configuration control board.   2 M
9. Justify the statement "80% of the contribution comes from 20% of the contributors".   2 M
10. Explain modern software management process.   2 M

PART-B
Answer the following. Each question carries TEN Marks.   5x10=50M

11.A). List the Boehm's top 10 industrial software metrics for the conventional software management performance.   10M

OR

11. B). Explain in detail about the three generations of software economics and how can we improve software economics.   10M

12. A). What are primary objectives, essential activities and evaluation criteria of inception phase?   10M

OR

12. B). What is an Artifact? Discuss about Engineering Artifacts.   10M

13. A). Explain the typical minor milestones in the lifecycle of iteration.   10M

OR

13. B). Illustrate the conventional "Work Breakdown Structure" and its issues in detail.   10M

14. A). With a neat diagram explain the project organization.   10M

OR

14. B). Justify the essentiality of round-trip engineering in project environments.   10M

15. A). Explain seven core metric and indicators in detail.   10M

OR

15. B). Describe the future software project management in detail.   10M

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CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)
B.Tech VI Semester Regular/Supplementary Examinations May-2023

Course Name: MARKETING MANAGEMENT
(Common for CSE, IT, CSC & CSM)

Date: 19.05.2023 AN	Time: 3 hours	Max.Marks: 70

(Note: Assume suitable data if necessary)

PART-A
Answer all TEN questions (Compulsory)
Each question carries TWO marks.

10x2=20M

1.	What is marketing?	2 M
2.	What are objectives of marketing?	2 M
3.	Define brand.	2 M
4.	Define market segmentation.	2 M
5.	Importance of social media.	2 M
6.	Define public relations.	2 M
7.	Define marketing channels.	2 M
8.	What is wholesale Marketing?	2 M
9.	Importance of sales management.	2 M
10.	What are the objectives of sales?	2 M

PART-B
Answer the following. Each question carries TEN Marks.

5x10=50M

11.A).	Define market. Explain the functions of marketing Management.	10M
	OR	
11. B).	Explain different stages of product life cycle (PLC).	10M
12. A).	Describe the consumer behaviour and explain the models of consumer behaviour.	10M
	OR	
12. B).	Define market segmentation. Explain the steps involved in market segmentation.	10M
13. A).	What do you mean by sales promotion? State its major objectives.	10M
	OR	
13. B).	Explain how online selling is different from offline selling.	10M
14. A).	What are the four steps to require to designing marketing channels in their correct order?	10M
	OR	
14. B).	Briefly state the factors to be considered in selecting channels.	10M
15. A).	Explain the nature and importance of sales management.	10M
	OR	
15. B).	Explain different types of sales organizations.	10M

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CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)
B.Tech VI Semester Regular/Supplementary Examinations May-2023
Course Name: ENVIRONMENTAL PROTECTION & MANAGEMENT
(Common for EEE, ECE, CSE & IT)

Date: 19.05.2023 AN   Time: 3 hours   Max.Marks: 70

(Note: Assume suitable data if necessary)

PART-A
Answer all TEN questions (Compulsory)
Each question carries TWO marks.   10x2=20M

1.	Define Pollution.	2 M
2.	What do you mean by sustainability?	2 M
3.	What is clean technology?	2 M
4.	Define zero discharge technology.	2 M
5.	Give the full form of EMAS and EMS.	2 M
6.	Define hazardous waste.	2 M
7.	Give any two roles of an environmental auditor.	2 M
8.	What is compliance audit?	2 M
9.	What do you mean by transboundary?	2 M
10.	Name some metals present in tanning industry effluent.	2 M

PART-B
Answer the following. Each question carries TEN Marks.   5x10=50M

11.A).	i) Discuss on the various national policy for environmental protection and Management.	5M
	ii) Enumerate the barriers for sustainable development.	5M

OR

11. B).	What is abatement of pollution. Discuss the major activities initiated under the various schemes on pollution abatement.	10M

12. A).	Discuss cleaner production and cleaner technologies.	10M

OR

12. B).	i) Distinguish between pollution control and pollution prevention.	5M
	ii) concentration and mass standards.	5M

13. A).	Discuss the merits and barriers in implementing ISO 14001 in an organization.	10M

OR

13. B).	i) Discuss the objectives and targets of an environmental management programme.	5M
	ii) Appraise the significance of training awareness on environmental protection.	5M

14. A).	Write a process flow diagram for the Management of an Audit Programme as per ISO-19011.	10M

OR

14. B).	Write a note on Waste Minimisation Planning in an Industry.	10M

15. A).	Write in brief about air and water pollution prevention opportunities in textile industries.	10M

OR

15. B).	Write in brief about disposal of hazardous wastes in a landfill.	10M

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