Hall Ticket No: | 1 | 9 | 8 | 8 | 1 | A | 0 | 5 | E | 2 |

Course Code: A5520

VARDHAMAN COLLEGE OF ENGINEERING
(AUTONOMOUS)

IV B.Tech I Semester Continuous Assessment – I, August - 2022

(Regulations: VCE-R19)

ARTIFICIAL INTELLIGENCE

(Common to Computer Science and Engineering & Information Technology)

Date: 10 August 2022 | Time: 90 Minutes | Max. Marks: 40

Answer all Questions in Part-A

Answer any Three Questions in Part-B

Course Outcomes with Bloom's Levels:

CO#	CO Statement	Bloom's Level (L#)
CO1	Understand the concepts of AI Agents and Environment	L1
CO2	Apply the propositional logic to AI designs	L3
CO3	Demonstrate the role of searching strategies in AI environment	L2
CO4	Analyze the constraint satisfaction problems and the solutions for problem solving	L4
CO5	Design the solution to the problems by applying planning and learning methods	L3

Questions:

			COs	BLs	Marks
		PART-A			
1.	a)	List any four applications areas of AI.	CO1	L1	2M
	b)	Explain the term heuristic function.	CO1	L2	2M
	c)	What is knowledge based agent?	CO2	L1	2M
	d)	Use propositional logic to differentiate implication and biconditional.	CO2	L2	2M
	e)	Identify the components used to define a problem in AI.	CO1	L2	2M
		PART-B			
2.	a)	Describe the challenges in developing AI application.	CO1	L2	5M
	b)	Explain depth first search with its features.	CO1	L2	5M
3.	a)	How bidirectional search works? What are the features of bidirectional search?	CO3	L3	5M
	b)	Explain constraint satisfaction problem with 8 queen problem.	CO1	L2	5M
4.	a)	Evaluate the wumpus world problem with an example.	CO2	L5	5M
	b)	What is propositional logic? Apply its connectives with syntax and suitable example.	CO2	L3	5M
5.	a)	What is knowledge based agent? Differentiate declarative and procedural approach in it.	CO2	L4	5M
	b)	Explain first order logic with assertions and queries with an example.	CO2	L3	5M
6.	a)	What is meant by search strategy? List and explain various parameters to evaluate search strategies.	CO3	L3	5M
	b)	Explain hill climbing algorithm with necessary steps and an example.	CO1	L2	5M

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Course Code: A5519

VARDHAMAN COLLEGE OF ENGINEERING
(AUTONOMOUS)

IV B.Tech I Semester Continuous Assessment – I, August - 2022

(Regulations: VCE-R19)

DATA ANALYTICS USING R
(Computer Science and Engineering)

Date: 11 August 2022 **Time: 90 Minutes** **Max. Marks: 30**

Answer all Questions in Part-A

Answer any Three Questions in Part-B

Course Outcomes with Bloom's Levels:

CO#	CO Statement	Bloom's Level (L#)
CO1	Understanding the building blocks of R- Programming	L2
CO2	Apply critical R-programming concepts to handle the data.	L3
CO3	Apply statistical concepts on real data.	L3
CO4	Use logistic and linear regression on real data.	L3
CO5	Design Decision tress to analyze the data.	L4

Questions:

PART-A

			COs	BLs	Mark
1.	a)	Show the primary file type of R?	CO1	L2	2M
	b)	Compare read.csv () and read.table () function?	CO2	L2	2M
	c)	List the elements of package in R.	CO1	L1	2M

PART-B

2.	a)	Summarize the advantages of R programming language over other general purpose programming languages?	CO1	L2	4M
	b)	Identify the need of head (), tail (), nrow (), ncol () in R with suitable examples.	CO1	L3	4M
3.	a)	Demonstrate with syntax the following functions i) find.package() ii) install.packages() iii) library() iv) vignette()	CO1	L3	4M
	b)	Describe the use of R-markdown? Explain how it differs from word documentation?	CO1	L3	4M
4.	a)	What do you mean by analytical data processing? Summarize the various challenges of it?	CO2	L3	4M
	b)	Write a R program to extract first 10 english letter in lower case and last 10 letters in upper case and extract letters between 22nd to 24th letters in upper case.	CO2	L3	4M
5.	a)	Interpret in-built string manipulation functions with example statements.	CO2	L3	4
	b)	Demonstrate with syntax and example the two functions na.fail () & na.pass ().	CO2	L3	4
6.	a)	What is package in R? Identify the different elements of R-Packages?	CO1	L2	4
	b)	Demonstrate with syntax and example the two functions aggregate () & tapply ().	CO2	L3	4

Hall Ticket No: 1 9 8 8 1 A 0 5 6 2 Course Code: A5558

VARDHAMAN COLLEGE OF ENGINEERING
(AUTONOMOUS)

IV B.Tech I Semester Continuous Assessment – I, August - 2022
(Regulations: VCE-R19)

Agile Project Management
(CSE)

Date: 12TH August 2022 Time: 90 Minutes Max. Marks: 40

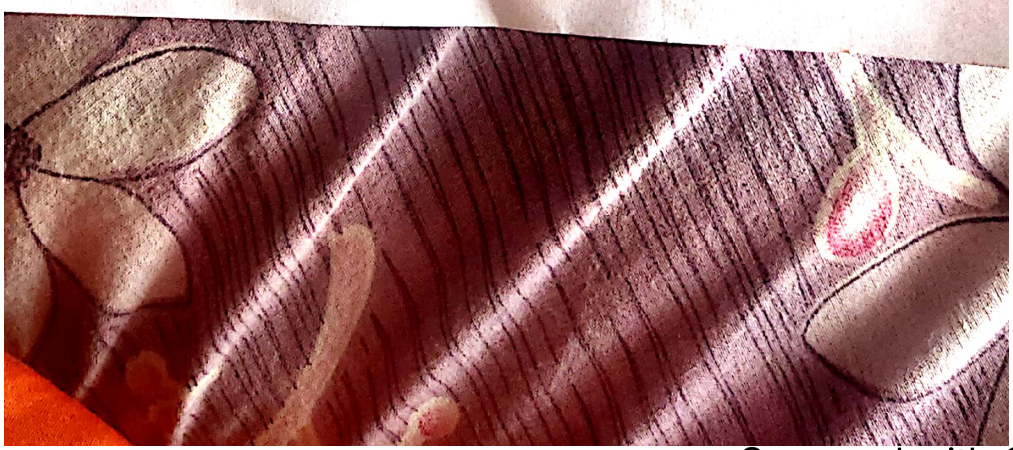
Answer all Questions in Part-A
Answer any Three Questions in Part-B

Course Outcomes with Bloom's Levels:

CO#	CO Statement	Bloom's Level (L#)
CO1	Learn how to introduce agility into a development organization.	2
CO2	Understand current problems with the team, development process and wider organization.	2
CO3	Apply agile principles and specific practices for projects	3
CO4	Select the most appropriate way to refine results for a specific circumstance or need	3
CO5	Judge and craft appropriate adoptions to current practices or processes depending upon analysis of typical problems.	3

Questions:

		PART-A	COs	BLs	Marks
1.	a)	Explain waste in the Lean way of development.	1	2	2M
	b)	How Would You Deal With a Stakeholder Who Is Not Easy To Handle?	1	2	2M
	c)	Explain Agile vs. Scrum	2	2	2M
	d)	How Do You Conduct Sprint Retrospective?	2	2	2M
	e)	As An Agile Project Manager, How Will You Weed Out Bad Project Ideas?	1	3	2M
		PART-B			
2.	a)	Illustrate Agile Values and principles.	1	2	5M
	b)	Demonstrate Kaizen and Kanban.	1	3	5M
3.	a)	Differentiate Agile and Traditional Methodologies.	1	2	5M
	b)	You are managing a project and your customer does not know which features they want in the end product. How can Agile help solve your customer's problem?	1	3	5M
4	a)	Illustrate about Scrum and its working methodology	2	3	5M
	b)	Describe various roles of Scrum.	2	2	5M
5	a)	Explain XP. The life cycle of Xp and its practices.	2	2	5M
	b)	Illustrate the responsibilities of scrum master.	2	3	5M



6.	a)	Explain How You Manage A Project Using Agile From Start To Project Completion	1	3	5
	b)	What Are Impediments In Scrum? Explain With Examples	2	3	5

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Course Code: A5632

VARDHAMAN COLLEGE OF ENGINEERING

(AUTONOMOUS)

IV B.Tech I Semester Continuous Assessment – I, August - 2022

(Regulations: VCE-R19)

E-COMMERCE TRENDS

(CSE)

Date: 13 August 2022 | Time: 90 Minutes | Max. Marks: 40

Answer all Questions in Part-A

Answer any Three Questions in Part-B

Course Outcomes with Bloom's Levels:

CO#	CO Statement	Bloom's Level (L#)
CO1	Illustrate the components and roles of the E-Commerce environment.	L2
CO2	Understand legal and ethical issues related to E-Commerce and web marketing approaches.	L2
CO3	Identify how to sell products and services on the web as well as to meet the needs of web site Visitors.	L3
CO4	Analyze e-commerce payment systems	L3

Questions:

			COs	BLs	Marks
		PART-A			
1.	a)	Define Digital marketing and social networking.	CO1	L2	2M
	b)	Write any four different types of business model that can be facilitated by the web.	CO1	L2	2M
	c)	Define Multi-tenancy SaaS and Single-tenancy SaaS.	CO2	L2	2M
	d)	Write any two legal factors that are most important issues for the e-commerce manager to address.	CO2	L2	2M
	e)	What do you mean by Web application server and Transaction log files?	CO1	L2	2M
		PART-B			
2.	a)	Businesses, consumers and governmental organizations are involved in framing business models for e-commerce. Explain.	CO1	L2	5M
	b)	Explain about auction business models.	CO1	L2	5M
3.	a)	Distinguish between E-Commerce and E-Business. Describe about buy-side and sell-side e-commerce.	CO1	L2	5M
	b)	Briefly write about the four different perspectives for e-commerce.	CO1	L2	5M
4.	a)	Briefly write about the elements of e-business infrastructure that require management.	CO2	L2	5M
	b)	What are the eight data protection principles are produced by legal requirements of the 1998 UK Data Protection Act	CO2	L2	5M

5.	a)	With an example of an employee who needs to book a holiday through an application, explain about the five-layer model of e-business infrastructure.	CO2	L2	5M
	b)	What are the main customer information types used by the Internet marketer which are governed by ethics and legislation are collected and used through technology?	CO2	L2	5M
6.	a)	Briefly write about the typical benefits of online services summarized by 'Six Cs'.	CO1	L2	5M
	b)	With a neat diagram explain about the relationship between intranets, extranets and the Internet.	CO2	L2	5M