

FIRST MID EXAMINATION, February- 2026

Course: B.Tech III Year II SEM

Branch: EEE/ME/CSE/IT/CS/IOT

Subject: Basic of Entrepreneurship (9ZC22)

Time : 2 Hours

Date : 25.02.2026 (AN)

Max Marks: 30

Part - A
(Compulsory Short answers)

6X 2 = 12 Marks

S.No	Coverage		BCLL	CO(s)	Marks
1	Unit-I	Explain the concept of effectuation?	BL2	CO1	2
2	Unit-I	Highlight the major difference between entrepreneur and entrepreneurship?	BL4	CO2	2
3	Unit-II	List out the different Entrepreneurial styles?	BL1	CO2	2
4	Unit-II	Highlight the major importance of Niche Marketing?	BL3	CO2	2
5	Unit-III	Explain SAAS and Fermium Business Models?	BL2	CO3	2
6	Unit-III	Write down the five elements of Lean Approach?	BL1	CO3	2

Part - B

Answer any **THREE** out of the **FOUR** questions 3X 6 = 18 Marks

S.No	Coverage		BCLL	CO(s)	Marks
7	Unit-I	How would you explain the role of Qualities and Skills in building successful entrepreneur?	BL2	CO1	3
		Enlist the desired characteristics of Entrepreneur?	BL4	CO1	3
8	Unit-II	Discuss the concept of Design thinking process and its major benefits?	BL2	CO2	3
		Classify and highlight the concept of customer segmentation?	BL4	CO2	3
9	Unit-III	Explain in detail about business model canvas with its blueprint diagram	BL2	CO3	3
		Distinguish Blue and Red Ocean Strategies?	BL4	CO3	3
10	Unit-I	List the principles of Effectuation?	BL4	CO1	2
a)	Unit-II	Highlight the importance of customer driven innovation?	BL1	CO2	2
b)	Unit-III	Write down the steps involved in product market fit test?	BL1	CO3	2

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REG: A22

FIRST MID EXAMINATION, February- 2026
Course: B.Tech III Year II SEM
Subject: Cyber Security & Cyber Laws-9FC07
Date : 23 .02 .2026 (AN)
Branch: CSE/IT
Time : 2 Hours
Max Marks: 30

Part - A

(Compulsory Short answers) 6X 2 = 12 Marks

S.No	Coverage	BCLL	CO(s)	Marks
1	Unit-I Define Cyber Security and explain its objectives.	L1	CO1	2M
2	Unit-I Define is Secret Key Cryptography?	L1	CO1	2M
3	Unit-II Define E-Commerce and E-Governance.	L1	CO2	2M
4	Unit-II Illustrate Types of Cyber Attacks?	L2	CO2	2M
5	Unit-III Define are Electronic Records under IT Act?		CO3	2M
6	Unit-III Define Intellectual Property Rights (IPR) in Cyberspace.	L1	CO3	2M

Part - B

Answer any THREE out of the FOUR questions 3X 6 = 18 Marks

S.No	Coverage	BCLL	CO(s)	Marks
7	Unit-I Explain Types of Cyber Attacks and Defence Strategies in detail.	L3	CO1	6M
8	Unit-II Discuss Introduction to Computer Security, Government Requirements, and Information Protection Controls.	L3	CO2	6M
9	Unit-III Explain Legal Aspects of Electronic Records and Digital Signatures in India.	L3	CO3	6M
10	Unit-I Explain Secret Key Cryptography and Public Key Cryptography with examples.	L2	CO1	2M
a)	Unit-II Discuss E-Commerce and E-Governance with reference to Free Market Economy in India.	L4	CO2	2M
b)	Unit-III Explain Protection of Intellectual Property Rights in Cyberspace in India.	L2	CO3	2M
c)				

FIRST MID EXAMINATION, February- 2026

Course: B.Tech III Year II SEM

Branch: CSE/IT/ AIMLIT/CS/DS

Subject: Machine Learning – 9LC03

Time : 2 Hours

Date : 24.02.2026 (FN)

Max Marks: 30

Part – A

(Compulsory Short answers)

6X 2 = 12 Marks

S.No	Coverage		BCLL	CO(s)	Marks
1	Unit-I	What are the Applications Of Machine Learning?	L1	CO1	2
2	Unit-I	What are the Types Of Machine Learning?	L1	CO1	2
3	Unit-II	Explain about Activation Function.	L2	CO2	2
4	Unit-II	What is RBF Network?	L1	CO2	2
5	Unit-III	Explain about Decision Tree.	L2	CO3	2
6	Unit-III	Define K-means Algorithm.	L1	CO3	2

Part – B

Answer any **THREE** out of the **FOUR** questions

3X 6 = 18 Marks

S.No	Coverage		BCLL	CO(s)	Marks
7	Unit-I	a) Explain About Supervised Learning with Suitable Example.	L2	CO1	3
		b) Explain the issues in Designing a Learning System.	L2	CO1	3
8	Unit-II	a) Explain Multilevel Perception.	L2	CO2	3
		b) Explain the Forward and Backward Propagation Neural Networks.	L2	CO2	3
9	Unit-III	a) Explain Construction Of Decision Trees.	L2	CO3	3
		b) Compare the Classification and Regression Trees.	L4	CO3	3
10	Unit-I	What is Linear Separability?	L1	CO1	2
a)	Unit-II	Define Overfitting.	L1	CO2	2
b)	Unit-III	Define Nearest Neighbor Method.	L1	CO3	2
c)					



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FIRST MID EXAMINATION, February- 2026

Course: B.Tech III Year II SEM

Subject: Big Data Analytics9FC15

Date : 26 .02 .2026 (FN)

Branch: CSE/IT

Time : 2 Hours

Max Marks: 30

Part – A

(Compulsory Short answers) 6X 2 = 12 Marks

S.No	Coverage		BCLL	CO(s)	Marks
1	Unit-I	Define the Big data and its characteristics?	1	1	2
2	Unit-I	What are the different types of data?	2	1	2
3	Unit-II	Brief the Anatomy of Hadoop Map-Reduce?	2	2	2
4	Unit-II	What are the Hive Joining? Brief?	1	2	2
5	Unit-III	Define SQOOP? Draw its architecture?	1	3	2
6	Unit-III	Write the syntax for Import to HDFS using SQOOP?	1	3	2

Part – B

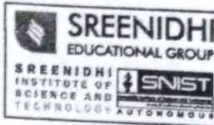
Answer any THREE out of the FOUR questions

3X 6 = 18 Marks

S.No	Coverage		BCLL	CO(s)	Marks
7	Unit-I	Explain in detail about 5V,s of Big data?	1	1	3
		Compare HADOOP vs RDBMS.	2	1	3
8	Unit-II	Explain the HADOOP Map Reduce with an example?	1	2	3
		Describe the working of Hive?	3	2	3
9	Unit-III	Explain the Export from HDFS to MySql and List its arguments?	1	3	3
		What is NoSQL? Explain the Kinds od NoSQL?	3	3	3
10	Unit-I	What are the types of big data analytics, Explain?	1	1	2
a)	Unit-II	List and Write about Hive- Data Types.	2	2	2
b)	Unit-III	What are the CRUD operations? Discuss?	2	3	2
c)					

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FIRST MID EXAMINATION, February- 2026

Course: B.Tech III Year II SEM
Subject: Operating Systems--9EC06
Date : 25 .02 .2026 (FN)

Branch: CSE/IT
Time : 2 Hours
Max Marks: 30

Part – A
(Compulsory Short answers)

6X 2 = 12 Marks

S.No	Coverage		BCLL	CO(s)	Marks
1	Unit-I	Differentiate between user mode and kernel mode	L4	CO1	2
2	Unit-I	Define Real-Time Operating System. Give some Real-Time Examples.	L1	CO1	2
3	Unit-II	What is context switching? Why is it required?	L2	CO2	2
4	Unit-II	Differentiate between process and thread	L2	CO2	2
5	Unit-III	State the Producer-Consumer problem.	L1	CO3	2
6	Unit-III	illustrate between pipe and FIFO.	L2	CO3	2

Part – B

Answer any **THREE** out of the **FOUR** questions

3X 6 = 18 Marks

S.No	Coverage		BCLL	CO(s)	Marks															
7	Unit-I	Explain Simple Structure and Layered Approach in OS design with diagrams	L2	CO1	6															
8	Unit-II	<table border="1"> <thead> <tr> <th>Process</th> <th>AT</th> <th>BT</th> </tr> </thead> <tbody> <tr> <td>P1</td> <td>0</td> <td>10</td> </tr> <tr> <td>P2</td> <td>1</td> <td>29</td> </tr> <tr> <td>P3</td> <td>2</td> <td>3</td> </tr> <tr> <td>P4</td> <td>3</td> <td>7</td> </tr> </tbody> </table> <p>For given table, calculate Avg TAT and Avg WT of jobs for SJF and RR(TQ=10) in preemptive mode</p>	Process	AT	BT	P1	0	10	P2	1	29	P3	2	3	P4	3	7	L4	CO2	6
Process	AT	BT																		
P1	0	10																		
P2	1	29																		
P3	2	3																		
P4	3	7																		
9	Unit-III	Explain the critical section problem and discuss the requirements of its solution.	L2	CO3	6															
10 a)	Unit-I	List the types of OS systems calls with example.	L1	CO1	2															
b)	Unit-II	Illustrate the process state diagram with a neat sketch.	L2	CO2	2															
c)	Unit-III	Compare shared memory and message passing models in IPC	L4	CO3	2															

FIRST MID EXAMINATION, February- 2026

Course: B.Tech III Year II SEM

Branch: CSE/ IT/ AIML/ DS

Subject: Web Technologies-9FC06

Time : 2 Hours

Date : 24 .02 .2026 (AN)

Max Marks: 30

Part – A

(Compulsory Short answers) 6X 2 = 12 Marks

S.No	Coverage		BCLL	CO(s)	Marks
1	Unit-I	Define semantic elements in HTML5 and list three examples.	1	1	2
2	Unit-I	Explain the concept of the CSS Box Model.	2	2	2
3	Unit-II	What is the purpose of the spread operator (...) when working with arrays?	2	3	2
4	Unit-II	Convert a standard function declaration into an Arrow Function.	3	3	2
5	Unit-III	What does the acronym MERN stand for, and what is the role of each component?	1	4	2
6	Unit-III	Briefly describe the purpose of the Node.js OS module.	2	4	2

Part – B

Answer any THREE out of the FOUR questions 3X 6 = 18 Marks

S.No	Coverage		BCLL	CO(s)	Marks
7	Unit-I	Explain the role of Media Queries in Responsive Web Design. Write a CSS block that changes a background color for mobile, tablet, and desktop views.	3	2	6
8	Unit-II	Describe Prototypal Inheritance in JavaScript. How does it differ from class-based inheritance found in languages like Java or C++?	2	3	6
9	Unit-III	Discuss the importance of Node Modules. Explain the difference between Core Modules, Local Modules, and Third-Party Modules with examples for each.	2	4	6
10	Unit-I	Distinguish between localStorage and sessionStorage in the Web Storage API.	2	1	2
a)	Unit-II	Compare var, let, and const in terms of scope and hoisting.	4	3	2
b)	Unit-III	Explain the role of the REPL in Node.js.	2	4	2
c)					

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FIRST MID EXAMINATION, February- 2026

Course: B.Tech III Year II SEM

Branch: CSE/ IT

Subject: Artificial Intelligence and Deep Learning -9EC13 **Time :** 2 Hrs

Date : 23 .02 .2026(FN)

Max Marks: 30

Part - A

(Compulsory Short answers) 6X 2 = 12 Marks

S.No	Coverage		BCLL	CO(s)	M.arks
1	Unit-I	Define an intelligent agent with neat diagram.	1	1	2M
2	Unit-I	What is a PEAS?	1	1	2M
3	Unit-II	Differentiate between a depth-first search and breadth-first search?	4	2	2M
4	Unit-II	Explain crypt arithmetic Problem	2	2	2M
5	Unit-III	What is unification in first-order logic?	1	3	2M
6	Unit-III	Differentiate between forward and backward Chaining.	4	3	2M

Part - B

Answer any THREE out of the FOUR questions 3X 6 = 18 Marks

S.No	Coverage		BCLL	CO(s)	Marks
7	Unit-I	Explain Classical planning Problem	2	1	6M
8	Unit-II	Detect the optimal path for given tree using mini-max search algorithm	4	2	6M
9	Unit-III	Discuss the logical agents in AI. How do they use knowledge bases to make decisions with an example?	1	3	6M
10	Unit-I	a) Explain the Problem solving Agents with an Example.	1	1	2M
	Unit-II	b) Explain Minimax Algorithm with an example?	2	2	2M
	Unit-III	c) Explain Syntax and Semantics of Proposition Logic with examples	2	3	2M