Code No: **R194203R** **R19** **Set No. 1**

IV B.Tech II Semester Supplementary Examinations, May/June – 2024

ENTREPRENEURSHIP

(Open Elective)

Time: 3 hours **Max. Marks: 75**

Answer any FIVE Questions
ONE Question from Each unit
All Questions Carry Equal Marks

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UNIT I

1	a)	Define entrepreneurship and discuss its significance in today's economy.	[7]
	b)	Identify and discuss the key characteristics of successful entrepreneurs.	[8]
		(OR)	
2	a)	Explain the importance of knowledge and skills for entrepreneurs.	[7]
	b)	Analyze the challenges and opportunities associated with entrepreneurship as a career choice.	[8]

UNIT II

3		Discuss the impact of family and societal factors on entrepreneurship.	[15]
		(OR)	
4	a)	Discuss about Entrepreneurship Development Training.	[7]
	b)	Examine the role of central and state government industrial policies and regulations in entrepreneurial activities.	[8]

UNIT III

5		Explain the concept of prefeasibility study in the context of business planning.	[15]
		(OR)	
6	a)	Discuss the various forms of ownership structures available to entrepreneurs.	[7]
	b)	Explain the process of feasibility report preparation.	[8]

UNIT IV

7		What are the primary financial considerations for launching a small business and how can entrepreneurs secure initial funding?	[15]
		(OR)	
8		Describe the key components of a successful product launch strategy for a small business.	[15]

UNIT V

9		Explain the key performance indicators that small business owners should monitor to assess the health and performance of their business.	[15]
		(OR)	
10		Discuss in detail about Rehabilitation of Business Units.	[15]

Code No:**R164205B** **R16** **Set No. 1**

IV B.Tech II Semester Supplementary Examinations, May/June – 2024

ARTIFICIAL NEURAL NETWORKS

(Common to Computer Science & Engineering and Information Technology)

Time: 3 hours **Max. Marks: 70**

Question paper consists of Part-A and Part-B
Answer ALL sub questions from Part-A
Answer any FOUR questions from Part-B
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PART–A *(14 Marks)*

1.	a)	Write any four applications of artificial neural networks.	[2]
	b)	Describe the systems of linear equations and substitutions briefly.	[2]
	c)	Define perceptron and its structure.	[3]
	d)	What notations are used in back propagation algorithm derivation.	[2]
	e)	Define multilayer perceptron and Radial Basis Function networks.	[2]
	f)	Write a short note on inner product kernels.	[3]

PART–B *(4x14 = 56 Marks)*

2.	a)	Describe various functional aspects of artificial neuron model with respect to activation functions**.**	[7]
	b)	"Neuron inhibition depends on activation function" Justify this statement with different types of activation functions.	[7]
3.	a)	Illustrate the working principles of supervised learning with an example.	[7]
	b)	Describe the importance of mean square error in delta learning rule? Explain the impact of continuous activation function in it.	[7]
4.	a)	Provide an example illustrating the use of Bayes' classifiers for pattern classification.	[7]
	b)	Describe the multilayer perceptron (MLP) and how it overcomes the limitations of single-layer perceptron's.	[7]
5.	a)	Define multi-layer feedforward networks and their components.	[7]
	b)	Explain the advantages and disadvantages of each network topology in specific applications.	[7]
6.	a)	Discuss the bias-variance trade-off and its relation to regularization.	[7]
	b)	Explain different types of regularization methods such as L1 regularization (Lasso) and L2 regularization (Ridge).	[7]
7.	a)	Describe the components of an SVM, including the kernel function, decision function and margin.	[7]
	b)	Explain various constraints involved in quadratic optimization for finding the optimal hyperplanes.	[7]