## B. Tech. (CSE) 7th Semester (G-Scheme) Examination, November–2023 NEURALNETWORKS Paper–PCC-CSE-401-G

Time allowed: 3 hours] [Maximum marks: 75]

Note: Attempt five questions in all, selecting at least one question from each section. Question No.1 is compulsory. All questions carry equal marks.

1. Write a short note on:

 $6 \times 2.5 = 15$ 

- (a) Differentiate between Feedforward and Feedback Networks.
- (b) What are Separability limitations in unsupervised Learning?
- (c) Define Activation function and its different types.
- (d) Reinforcement Learning
- (e) Unsupervised Learning
- (f) Backpropagation Network

#### Section-A

2. Describe the following:

15

- (a) Auto Associative Memory
- (b) Hetro Associative Memory
- How biological neural is different from the artificial neural networks? Explain architecture of biological neural network.

3533-P-2-Q-9 (23)

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#### Section-B

4.	What do you mean by	Gradient	Descent	algorithm?	1
	Explain with example.	*		15	

5. Explain the following:

15

- (a) Application of Artificial Neural Network
- (b) McCulloch Pitts Model

#### Section-C

- 6. Explain the architecture of associative memory in detail.
  ✓ Also discuss its retrieval algorithm.
- 7. In which manner multilayer perceptron model differ from single layer Perceptron Model? Explain the reasons for emergence of multilayer perceptron model.

#### Section-D

- 8. Explain Hebbian Model and implement logic 'AND' function using Hebb Network. 15
- 9. What do you mean by Generalized Delta rule? Explain in detail.

B. Tech. (CSE)- Professional (Elective-IV)
7th Semester Examination, November–2023
SOFTWARE PROJECT MANAGEMENT
Paper–PEC-CSE-401-G/PEC-IT-407-G

Time allowed: 3 hours]

[Maximum marks: 75

Note: Question No. 1 is compulsory. Attempt five questions in total selecting one question from each unit.

1. Write short note on:-

 $6 \times 2.5 = 15$ 

- (a) Categorizing software projects
- (b) Cash flow forecasting
- (c) Sequencing and scheduling of activities
- (d) The nature of resources
- (e) Maslow's hierarchy of needs
  - (f) Capability Maturity Models (CMM)

#### Unit-I

- 2. (a) Explain certain characteristics which make software projects different from other types of projects.
  - (b) Explain the terms used to describe well-defined objectives.
- 3. Outline and explain the step wise planning activities in details.

**3534**-P-2-Q-9 (23)

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#### Unit-II

					,		
4.	(a)	Explain S	Spiral Mo	del of SD	LC.	· · · · · · · · · · · · · · · · · · ·	8
<b>V</b>	(b)	What are of lagged	lagged ac	ctivities?] s in prece	How to repr	esenta ork?	tion 7
5.	Eval	uate risk to	the sched	ule by app	lying PERT	techni	ique
		suitable ex				20 P P P	15
			Uni	t-III			
6.	Expl SPM		cheduling	and the so	heduling so	equenc	e in
<b>1.</b>	Expl	ain differe	nt method	ls of visua	lizing prog	ress w	hile
	moni	itoring the	project.				15
*		•	Uni	t-IV	•		
8.	Expla	ain differe	nt technic	ques to he	elp enhance	softv	vare
	quali	ty.	~		- *		15
9.	Expla	in the follo	owing:				
	(a)	The impor	rtance of	software	quality		7
	(b)	ISO 1550	1 Process				

# B. Tech. 7th Semester (CSE) Professional Elective-V (G-Scheme) Examination, November-2023 NETWORK SECURITY & CRYPTOGRAPHY Paper-PEC-CSE-4U-G

Time allowed: 3 hours]

[Maximum marks: 75

Note: Question no. 1 is compulsory. Answer any one question from each of the remaining four units. All questions carry equal marks.

1. Briefly explain the following: -

 $6 \times 2.5 = 15$ 

- (i) Cipher Text
- (ii) Drawbacks of symmetric cryptography
- (iii) E-mail Security
- (iv) Single Sign-on approach
- (v) CIA triad
- (vi) Certificate based authentication

#### **Unit-I**

- 2. Explain the basic concepts of Encryption and Decryption techniques with suitable examples. 15
- Describe substitution ciphers. Also define how their working is different than the transposition ciphers.

### (2) Unit-II

4.	What do you mean by Digital Signatures? Ho	w do
	they act as a medium of trust between communic	ating
	parties?	15
<i>5</i> .	(a) Differentiate between symmetric and asymmetric	netric
	encryption approach.	6
	(b) RSA Algorithm	9
	Unit-III	
		x
6.	What is SSL? Detail the events that are required	for a
-r 9	successful SET transaction.	15
7.	Explain the Secure HTTP protocol and how do	oes it
	provide better security than HTTP? Also discus	ss the
	vital features of TSP.	15
	Unit-IV	
		8
8.	Describe in detail the Kerberos authentication se	rvice.
	Also highlight its chief drawbacks.	15
9.	(a) Security Handshake Pitfalls	7

Key Distribution Centre

(b)

### B. Tech. 7th Semester (CSE) Open Elective-1 (G-Scheme) Examination, November-2023 FUNDAMENTALS OF MANAGEMENT

Paper-HSMC-08-G

Time allowed: 3 hours] [Maximum marks: 75

Note: Attempt five questions in all, selecting one question from each unit. Question no. 1 is compulsory. All questions carry equal marks.

1. Write short notes in 40 -50 words:

 $6 \times 2.5 = 15$ 

- (i) Definition of Management
- (ii) Production Management
- (iii) Types of Training
- (iv) Define Marketing Research
- (y) Various sources of finance
- (vi) Objectives of Marketing Management

#### Unit-I

2. What do you mean by Personnel management? Also explain various function of personnel management.

15

3. Define management. Explain various principles of management.

#### Unit-II

- 4. What is meant by production management? Explain various objectives and functions of production management.
- 5. Define Inventory control. Also explain various methods of inventory control.

#### Unit-III

- 6. Explain the term Marketing. Explain various objectives and functions of marketing management. 15
- 7. What do you mean by Advertising? Explain its objectives and functions.

#### Unit-IV

- 8. Define Financial Management. Explain the objectives and functions of financial management. 15
- 9. What is capital structure? Explain various short term and long term sources of finance.