Hall	Tick	et Number :												R11
Code: 1G181 IV B.Tech. II Semester Regular & Supplementary Examinations Mar/Apr 2016														
Artificial Neural Networks (Computer Science & Engineering) Max. Marks: 70 Max. Marks: 70 Time: 3 Hours Answer any five questions All Questions carry equal marks (14 Marks each) ********									3 Hours					
1.	1. a) Define artificial Intelligence										4M			
	b)	Explain the model of artificial neuron										5M		
	c) Explain classification of learning methods?											5M		
2.	2. a) Explain activation dynamics models?										7M			
	b)	Explain about stability and convergence?										7M		
3.	a)	Describe ider	ntificat	ion	of p	attei	rn ree	cogn	ition	prob	lem	?		7M
	b)	Explain about basic functional units? 7M								7M				
4.	a)	Explain abou	t linea	r ins	sepa	arabi	ility: l	Hard	prot	olem	s?			7M
	b)	Write about the geometrical interpretation of hard problems: multilayer perception? 7M												
5.	a)	Explain abou	t Boltz	mai	nn n	nach	nine?	•						10M
	b)	Write about is	ssues	in ir	nple	emer	ntatic	on of	Boltz	zmai	nn le	arnir	ig?	4M
6.		Discuss abou	ıt anal	ysis	s of f	eed	back	laye	er for	diffe	erent	outp	out functions?	14M
7.	a)	Explain abou	t RBF	net	worł	ks fo	or pat	ttern	clas	sifica	ation	?		7M
	b)	Write about c	ounte	r pro	opa	gatic	on ne	etwor	ks?					7M
8.	a)	Explain about applications?		ocia	ate	men	nory	and	pat	tern	clas	ssific	ation in dire	ct 7M
	b)	Discuss abou	it reco	gnit	ion	of pi	rinteo		aracte	ers?				7M

Hall T	icket Number :	R11								
Code: 1G182 IV B.Tech. II Semester Regular & Supplementary Examinations Mar/Apr 2016 Design Patterns (Computer Science & Engineering)										
Max. Marks: 70 Time: 3 Ho										
Answer any five questions										
All Questions carry equal marks (14 Marks each)										
1. a)	1. a) Explain in detail about Design Pattern solves Design problems?									
b)	b) Illustrate the use of design pattern?									
2. a)	a) Write in detail about Immutable Object?									
b)	b) When can be a Private Methods effectively be applicable? Explain in detail?									
3.	Compare and contrast Prototype and Singleton Creational pattern?									
4. a)	Discuss about the benefits and liabilities of the Visitor pattern?	7M								
b)	b) Relate Flyweight and Iterator design patterns?									
5. a)	a) Explain about the indent and motivation of Facade pattern?									
b)	Discuss in detail about the applicability and structure of Bridge pattern? 7N									
6. a)	Discuss about the structure and participants of Interpreter pattern?									
b)	What are the implementation issues to be considered in Strategy design pattern?									
7	7 What is the intent of Common Attribute Registry? When this patterns are used? What is its structure? Write the sample code of Common Attribute Registry pattern?									
8. a)	Discuss the importance of implementation in Critical Section?	7M								
b)	What are the benefits and liabilities of Consistent Lock Order?	7M								

Hall Tic	ket Number :	R11							
Code:	1G184								
IV B.Te	ech. II Semester Regular & Supplementary Examinations Mar/Apr 2 Virtual Reality (Computer Science & Engineering) Marks: 70 Time: 3 H Answer any five questions All Questions carry equal marks (14 Marks each)								
1 ->	*****	014							
1. a)	Define VR and give importance of three I's of Virtual Reality.	8M 6M							
b)	Discuss about Commercial VR technology.	DIVI							
2.	Briefly explain gesture interfaces with example.								
3. a)	What is the role of the 'CONVOLVOTRON' in enhancing the sound systems?	7M							
b)	Explain importance of Haptic feedback.	7M							
4. a)	Discuss about kinematic modeling in detail.	10M							
b)	Distinguish between physical modeling and behavioral modeling.	4M							
5. a)	Give importance of User performance studies for human factors.	7M							
b)	Write short note on VR Health and safety issues.	7M							
6.	Explain how VR plays major role in military applications in detail.	14M							
7.	Discuss in detail about loading and manipulating of external models using Java 3D.	14M							
8.	Write short notes on	71.4							
	a) Animated 3D sprites.b) Particle Systems.	7M							
		7M							

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Hall Tic	ket Number :										R11
Code: 1G187											
IV B.Tech. II Semester Regular & Supplementary Examinations Mar/Apr 2016											
Software Testing Methodologies											
Max. N	(Computer Science & Engineering) Max. Marks: 70 Time: 3 Hours										
Answer any five questions											
All Questions carry equal marks (14 Marks each)											
1. a) Give brief explanation of white box testing and block box testing and give											
,	the differences between them								9M		
b)	b) What are the differences between static data and dynamic data?									5M	
2. a)	2. a) Explain about control flow graphs.									7M	
b)	b) What are the advantages and disadvantages of Control flow graphs									7M	
3. a)	3. a) How does Data flow Testing is helpful in fulfilling the gaps in path testing?							4M			
b)	b) Explain about data flow graphs for testing.								10M		
4.	Explain the domain boundary bugs in detail for two dimensional domains. 14N							14M			
5.	Write the steps involved in Node Reduction Procedure. Illustrate all the										
	steps with hel	p of neat	labele	d diagi	rams						14M
6. a)	Write Boolean	n Algebra	rules.	Illustra	ate the	e rules	s with	n path e	express	ions.	7M
b)	Use a Karnaugh map to minimize										
	F= AB'C'D'+A	'B'C'D'+/	ABC'D	+A'BC	D+AE	3D+B	'CD'+	-A'BC'I	C		7M
7.	Write short notes on										
	(a) Transition bugs										
	(b) Dead states										
	(c) State bugs	i									
	(d) Encoding b	ougs									14M
8.	Write a Node	Reductic	on algoi	ithm ir	n term	s of N	<i>Aatri</i> >	(opera	itions.		14M