F	37	22
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Reg. No.....

Name.....

B.TECH. DEGREE EXAMINATION, NOVEMBER 2010

Eighth Semester

Branch: Computer Science and Engineering

PRINCIPLES OF PROGRAMMING LANGUAGES (R)

(Supplementary)

Time: Three Hours

Maximum: 100 Marks

Part A

Answer all questions.

Each quesiton carries 4 marks.

- 1. Briefly explain the role of programming languages. The same and the most of
- 2. Write short notes on language paradigms.
- 3. Explain with examples type checking.
- 4. Discuss about structured data types.
 - 5. Explain about sequence control.
 - 6. Explain abstract data types.
 - 7. Explain about polymorphism.
 - 8. Discuss in detail subprogram control.
 - 9. What is meant by parallel programming? Explain.
 - 10. Explain exception handling in JAVA and write their features.

 $(10 \times 4 = 40 \text{ marks})$

Part B

Answer all questions.

Each quesiton carries 12 marks.

11. Discuss in detail "Design issues of programming language".

(12 marks)

Or

12. Write notes on 'language paradigms'.

(12 marks)

13. Explain about assignment and initialisation.

(12 marks)

Or

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(12 marks) (12 marks) (13 marks) (14 marks) (15 marks) (16 marks) (17 marks) (18 marks) (19 marks) (19 marks) (10 marks) (10 marks) (10 marks) (11 marks) (12 marks) (12 marks) (13 marks) (14 marks) (15 marks) (15 marks) (16 marks) (17 marks) (18 marks) (19 marks) (19 marks) (10 marks) (10 marks) (11 marks) (12 marks) (13 marks) (14 marks) (15 marks) (16 marks) (17 marks) (18 marks) (19 marks) (19 marks) (20 marks) (30 marks) (40 marks) (50 marks) (6) marks) (70 marks) (8) marks) (8) marks) (9) marks) (10 marks) (11 marks) (12 marks) (13 marks) (14 marks) (15 marks) (16 marks) (17 marks) (18 marks) (19 marks) (19 marks) (10 marks) (10 marks) (11 marks) (12 marks) (12 marks) (13 marks) (14 marks) (15 marks) (16 marks) (17 marks)	2 (S: ages : 2)	F 3722
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(skram 21) (Icrifico Soneures Principale Single Sin		(12 marks)
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Supplementary Since Hours Supplementary Since Hours Since Hours Supplementary Su		(12 marks)
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Answer all questions: Rech question carries 4 marks Institute Institute	Dort A	6 + 6 = 12 marks
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	about assignment and initialisation. (12 marks)	

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B.TECH. DEGREE EXAMINATION, NOVEMBER 2010

Eighth Semester

Branch: Computer Science and Engineering

E-COMMERCE—(Elective II) (R)

(Supplementary)

Time: Three Hours

Maximum: 100 Marks

Part A

Answer all questions.

Each question carries 4 marks.

- 1. What is meant by WWW? Name some popular Internet Browsers.
- 2. Discuss the E-commerce architecture.
- 3. What is Fire wall? Explain.
- 4. What is data encryption? Explain.
- 5. What is a credit card? Explain.
- 6. What are the risk in Electronic Payment System?
- 7. What is EDI and explain internet boned EDI?
- 8. Explain the need for EDI standard.
- 9. What is mobile computing, explain?
- 10. Explain how Broad Band Telecommunication helps in E-commerce?

 $(10 \times 4 = 40 \text{ marks})$

Part B

Each question carries 12 marks.

(12 marks) 11. Explain WWW architecture and internet service provider.

(12 marks) Give the anatomy of E-commerce and its applications.

(12 marks) Explain CS security threats and explain how it can over come.

(12 marks) 14. Mention different types of security measures and describe each in detail.

(12 marks) Explain the design procedure of electronic payment system.

What are different types of e-payment system? Explain its advantages and disadvantages.

(12 marks)

(12 marks) What is document library? Explain. Or

(6 marks)

Explain EDI in WWW. (i)

(6 marks) Explain internal information system.

(12 marks) 19. Explain Mobile computing and Wireless computing in detail.

20. Short notes on:

(6 marks) (i) SMDS.

(6 marks) (ii) Asynchronous transfer mode.

 $[5 \times 12 = 60 \text{ marks}]$

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B.TECH. DEGREE EXAMINATION, NOVEMBER 2010

Eighth Semester

Branch: Computer Science and Engineering

E-COMMERCE—(Elective II) (R)

(Supplementary)

Tune: Three Hours

A A

Part A Answer all questions. Each question carries 4 marks.

- 1. What is meant by WWW? Name some popular Internet Browsers.
- 2. Discuss the E-commerce architecture.
- 3. What is Fire wall? Explain.
- 4. What is data encryption? Explain.
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- 9. What is mobile computing, explain?
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 $(10 \times 4 = 40 \text{ marks})$

Part B

Each question carries 12 marks.

11. Explain WWW architecture and internet service provider. O_T

Give the anatomy of E-commerce and its applications. (12 marks)

13. Explain CS security threats and explain how it can over come.

Ur

14. Mention different types of security measures and describe each in detail. (12 marks)

15. Explain the design procedure of electronic payment system.

(12 marke)

(12 marks)

(12 marks)

16. What are different types of e-payment system? Explain its advantages and disadvantages.
(12 marks)

17. What is document library? Explain.

(12 marks)

18. (i) Explain EDI in WWW.

(6 marks)

(ii) Explain internal information system.
19. Explain Mobile computing and Wireless computing in detail.

(6 marks) (12 marks)

20. Short notes on

12.

(i) SMDS

i) Agynchronous transfer mode

(6 marke)

 $[5 \times 12 = 60]$ marks

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B.TECH. DEGREE EXAMINATION, NOVEMBER 2010

Eighth Semester

Branch: Computer Science and Engineering/Information Technology
CLIENT SERVER COMPUTING—(Elective II) (RT)

(Supplementary)

Time: Three Hours

Maximum: 100 Marks

Answer all the questions.

Part A

Each question carries 4 marks.

- 1. What is meant by Hetrogenous computing?
- 2. Mention the advantages and disadvantages of client server computing.
- 3. Discuss about client/server development tools.
- 4. What is request for service? Explain the basic service provided by NOS.
- 5. Compare Multiprogramming with Multitasking.
- 6. Discuss about advantages of multiple processor.
- 7. Discuss about "semaphores".
- 8. Discuss "Critical Sections".
- 9. Discuss about "Kernal Structure".
- 10. Describe inter processor communication.

 $(10 \times 4 = 40 \text{ marks})$

Part B

Each question carries 12 marks.

11. Write notes on client server computing and cross platform computing. (12 marks)

Or

12. Discuss about client-server databases.

(12 marks) (12 marks)

13. Explain the fundamentals of client server design.

14. Discuss about client server communication protocol.

(12 marks)

15. Write notes on multi programming.

(12 marks)

 $_{\scriptscriptstyle ar{z}}$ Or

(12 marks)

16. Explain Windows NT for developing client-server application.

(12 marks)

17. How to create semaphore and explain semaphore implementations in NT.

(12 marks)

Or

- 18. Write notes on:
 - (i) Context switching.
 - (ii) Preemptive systems.

(12 marks)

19. Write notes "Communication protocols".

(12 marks)

20. Discuss the importance of the Kernel structure for network communication.

(12 marks)

 $[5 \times 12 = 60 \text{ marks}]$

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B.TECH. DEGREE EXAMINATION, NOVEMBER 2010

Eighth Semester

Branch: Computer Science and Engineering

(Supplementary)

MULTIMEDIA SYSTEMS—Elective III (R)

Time: Three Hours

Maximum: 100 Marks

Answer all the questions.

Part A

Each question carries 4 marks.

- 1. What is Multimedia? Give example of time-independent media.
- 2. List the basic tools in multimedia and explain its uses.
- 3. What is sound card? Explain.
- 4. Short note on 'Fractal compression technique'.
- 5. Explain about CD-interactive in detail.
- 6. What is MIDI? List different MIDI interface components.
- 7. Short note on component classes.
- 8. List different problems related to multimedia programming. Explain methods to limit any one problem.
- 9. What is Multimedia network? Explain.
- 10. Explain pc boned video conferencing system.

 $(10 \times 4 = 40 \text{ marks})$

Part B

Each question carries 12 marks.

11. Write about Authoring tools in Multimedia.

(12 marks)

Or

12. Discuss some Hardware and software applications of multimedia.

(12 marks)

13. What is image compression? Explain JEPG compression technique in detail.

(12 marks)

Or

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14.	(i) Exp	plain hepermedia and hyper test.	(6 marks)	
	(ii) Exp	plain TIFF file format used for images.	(6 marks)	
15.	(i) Wh	at is CD ? Compare CD and Floppy disk.	(4 marks)	
	(ii) Exp	plain the various modes of CD ROM.	(8 marks)	
		Or		
16.	Explain	the principle 'Quick time' in detail.	(12 marks)	
17.	Explain	Transform classes and format classes in a multimedia framework.	(12 marks)	
		Or		
18.	What is	Synchronization? Explain.	(12 marks)	
19.	19. Write short note on 'future multimedia' and explain how it will change the present scenario.			
			(12 marks)	
		Or		
20.	(i) Exp	plain any <i>one</i> video capture technique.	(6 marks)	
	(ii) Wh	at are moving pictures? Explain any one method of realistic image syn	thesis. (6 marks)	
		[5	$5 \times 12 = 60 \text{ marks}$	

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Name

B.TECH. DEGREE EXAMINATION, NOVEMBER 2010

Eighth Semester

Branch: Computer Science and Engineering/Information Technology
SECURITY IN COMPUTING (R,T)

(Supplementary)

Time: Three Hours

Maximum: 100 Marks

Answer all the questions.

Part A

Each question carries 4 marks.

- 1. What is Hackers?
- 2. What is Trojan Horse?
- 3. Mention the different protection mechanisms of OS.
- 4. What are all the different types of holes?
- 5. What is Cryptography?
- 6. Mention the important features of modern symmetric key algorithms.
- 7. What is secure socket layer?
- 8. What is Firewalls?
- 9. What do you mean by data security?
- 10. Explain the security requirements in database.

 $(10 \times 4 = 40 \text{ marks})$

Part B

Answer all, each carries 12 marks.

11. (a) Explain the different aspects of network security.

Or

- (b) Discuss in detail about security services and mechanisms.
- 12. (a) Discuss in detail about discretionary and Mandatory Access Control.

Or

- (b) Discuss in detail about access control and remote execution in UNIX.
- 13. (a) Discuss in detail about Fiestal network and DES algorithm.

Or

- (b) Write a technical note on Digital Signature.
- 14. (a) With neat diagram, explain about IP security architecture.

Or

- (b) Discuss in detail about Secure Electronic Transaction.
- 15. (a) Discuss in detail about MAC for multilevel security.

Or

(b) Explain about the security issues in data security and also explain about statistical database security.

 $(5 \times 12 = 60 \text{ marks})$

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B.TECH. DEGREE EXAMINATION, NOVEMBER 2010

Eighth Semester

Branch: Computer Science Engineering/Information Technology
DISTRIBUTED COMPUTING—(Elective II) (RT)

(21000170 11)

(Supplementary)

Time: Three Hours

Maximum: 100 Marks

Answer all the questions.

Part A

Each question carries 4 marks.

- 1. What are the advantages and disadvantages of distributed systems?
- 2. Distinguish between Centralized and Distributed system.
- 3. Discuss file service architecture.
- 4. Discuss about name services.
- 5. Define the distributed mutual exclusion problem.
- 6. What is meant by clock synchronization? Explain.
- 7. Discuss about Resource Management.
- 8. Discuss about "threads" and "process".
- 9. Discuss the methods of transaction recovery.
- 10. Explain dead locks in distributed systems.

 $(10 \times 4 = 40 \text{ marks})$

Part B

Answer any five quustions. Each question carries 12 marks.

11.	Write notes on "evolution and characteristics of Distributed System.	(12 marks)
12 .	Discuss about network technology and protocols used in DS.	(12 marks)
13.	Discuss in detail the file service architecture.	(12 marks)
14.	Discuss about distributed file systems.	(12 marks)
15 .	Write notes on:	
	(i) Mutual exclusion.	(6 marks)
	(ii) Clock synchronization.	(6 marks)
16.	What is RPC? Explain the need of marshalling? What is stub matching?	(12 marks)
17.	Write notes on "Scheduling algorithms".	(12 marks)
18.	Explain in detail process migration mechanism.	(12 marks)
19.	Explain server crash failures and Byzantine failures.	(12 marks)
20.	Define fault tolerance. Describe various approaches to masking faults.	(12 marks)
		$[5 \times 12 = 60 \text{ marks}]$

F 37	'93 (Pages : 2	2) Reg. No
		Name
	B.TECH. DEGREE EXAMINAT	
	Eighth Seme	ester
	NEURAL NETWORKS (I	Elective III) (R T)
	(Supplement	eary)
Time:	Three Hours	Maximum: 100 Marks
1	Part A	
	(327)	18. Explain areificial base mechada.
	Answer all que Each question carrie	es 4 marks.
1.	Explain with a diagram, a components of artificia	
2.	Define linear separability.	
3.	What are the types of CPN? Explain.	
4.	What is meant by supervised training?	
5.	What are the applications of BPN?	
6.	What is Kebenon layer? How to train this layer?	?
7.	How is Boltzmann machine used to optimize non-	-linear problems?
8.	What is meant by statistical networks? Mention	its advantages .
9.	Discuss about associative memories.	7 No.
10.	Discuss Recurrent networks.	
		$(10 \times 4 = 40 \text{ marks})$
	Part B	, (
	Each question carrie	s 12 marks.
11.	(a) Compare the characteristics of artificial neur	+
		(6 marks)

Or

(b) Discuss learning rules in ANN.

(ii) Multilayer networks.

Single layer networks.

12. Explain the following: —

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(6 marks)

(6 marks)

(6 marks)

	Change 10 Real New Man	F 379	3
13.	Explain training algorithm used in Basic propagation net.	(12 marks	3)
	B-TECH, DECREE EXAMINATION NOVEMBER 2010		14
14.	Explain in detail the applications of BPN.	(12 marks	1)
15.	Discuss training methods used in CPN network.	(12 marks	1)
	Branch : Computer Salauce and Engineering / Information Technology.		
16.	Explain the applications of full (CPN) counter propagation network.	(12 marks)
17.	State the application algorithm used in Cauchy's machine.	(12 marks)
	Or	744.2	
18.	Explain artificial heat methods.	(12 marks)
19.	Explain about continuous BAM.	(12 marks)
	annuan [alalOr, a components of arOldel neuron.		
20.	What are the two types of learnings in the ART net?)
		= 60 marks]
	the meant by supervised training?		
	t are the applications of BF61?	5. Wh	
	it is Kebanca layer ? How to crain this layer?	dW_8	
	is Boltzmann machine used to optimize non-linear problems?		
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(kalium)	$a \otimes b = b \times O(1)$		
	Part B	7	
	Each question curries 12 marks.		
	Computer this charge training of untificial persons and histograph neurons.	(a) 13	
	n (8)		
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Orima	Discuss learning rules in ANN On a		
	igin the following —	12. Exp	
	i) Single layer networks. (6 m		
	i) Multilaper networks. (6 g		

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B.TECH. DEGREE EXAMINATION, NOVEMBER 2010

Eighth Semester and haloman virtual and making

Branch - Computer Science and Engineering

HIGH PERFORMANCE COMPUTING (R)

(Supplementary) stormed well ask bitata males I

Time: Three Hours

Maximum: 100 Marks

Answer all questions.

Part A

- 1. What is parallel processing? Explain.
- 2. Explain the concept of multiprogramming and time sharing system.
- 3. What are the classification of pipeline processors?
- 4. Short note on 'General pipeline'.
- 5. Differentiate between static and dynamic network.
- 6. Explain mesh connected network in detail.
- 7. What is meant by loosely coupled multiprocessors?
- 8. How parallelism in programs are detected?
- 9. Explain dynamic data flow computer.
- 10. How the data flow computers differ from the conventional computers?

 $(10 \times 4 = 40 \text{ marks})$

Part B

11. Explain the three architectural classification schemes briefly.

(12 marks)

Or

12. Explain the Indian contribution to parallel processing.

(12 marks)

13. Explain the classification of pipeline processors in detail.

(12 marks)

Or

14. Explain the design of pipelined iinstruction unit.

(12 marks)

15. Explain Associative array processing in detail.

(12 marks)

Or

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16.	Explain SIMD array processors in detail.	12 marks)
17.	Explain all the process synchronisation mechanisms.	12 marks)
	STEOR DECREE EXAMOVATION, NOVEMBER 2010	
18.	Explain the tightly coupled multiprocessor in detail.	12 marks)
19.	Explain the different data flow computer architecture.	12 marks)
	HIGH PERFORMATOUR COMPUTING (R)	
20.	Explain static data flow computer in detail.	12 marks)
00 Marks	1 : mumixsM	60 marks]
		\
	What are the classification of pipeline processors?	
	Short note on 'General pipeline'	
	Explain mesh connected network in detail.	
	Explain dynamic data flow computer.	
		10,
	Part B	

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B.TECH. DEGREE EXAMINATION, NOVEMBER 2010

Eighth Semester

Branch: Computer Science and Engineering / Information Technology

ARTIFICIAL INTELLIGENCE (R, T)

(Supplementary) made brawsland bas brawsof malgx?

Time: Three Hours

Maximum: 100 Marks

Answer all questions.

Part A

Each question carries 4 marks.

- 1. Discuss problem characteristics.
- 2. What is meant by bi-directional search?
- 3. What is informed search?
- 4. What is Iterative deepening?
- 5. Discuss Alpha-Beta cut-off.
- 6. What is meant by semantic net?
- 7. Discuss about learning knowledge acquisition.
- 8. What is unification?
- 9. Discuss search strategies.
- 10. What is meant by Recursive search?

 $(10 \times 4 = 40 \text{ marks})$

Part B

Each question carries 12 marks.

11. Write notes on problems and problem spaces.

Or

- 12. Explain constraint satisfaction search and breadth first search.
- 13. Describe A*algorithm with suitable example.

Or

14. How does hill climbing ensure greedy local search? What are the problems of hill climbing?

Turn over

15. Describe knowledge structures and imperfect decisions.

16. Construct semantic net representations for the following:

Pomepeian (Marcus), Blacksmith (Marcus)

Marry have the green flowered vase to her favourite cousin.

17. Discuss representation of knowledge and reasoning with logic.

- 18. Explain forward and backward chaining with suitable examples.
- 19. Write notes on:
 - (a) Meta predicates.
 - (b) Meta interpreters.

(6 + 6 = 12 marks)

20. Explain the implementation of semantic nets in prolog.

 $[5 \times 12 = 60 \text{ marks}]$