Code No: 126EP

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech III Year II Semester Examinations, May - 2016

WEB TECHNOLOGIES (Common to CSE, IT)

Max. Marks: 75

Time: 3 hours

Note: This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A (25 Marks)	1 1 1
	[2]
Give any two advantages of PHP.	[3]
How can you create array in PHP? Explain.	[2]
Diames the common tags of XHIVIL.	[3]
How can you declare attributes in XML? Give an example.	: [2]
What does Servlet config interface do? What does Servlet config interface do?	are they?[3]
What does Servlet config interface do? When a Servlet accepts a call from a client, it receives two objects. What	[2]
What is Session tracking Explain.	[3]
What is the purpose of using Cookies? How they are created? What is the purpose of using Cookies? How they are created?	[2]
What is the difference between GET and POST method in Java Script.	[3]
How does one access cookie in a java script?	[2]

PART - B (50 Marks)

Discuss about various functions used in PHP with examples. Write a PHP script to add and remove users from a MySQL table.	[5+5]
OR	
3.a) Describe about various types of PHP interpreters. b) Write a PHP script for searching a website URL for a keyword or sentence.	[5+5]
Explain document structure description with example code in XML. What are the XML namespaces and how are they declared?	[5+5]
OR	
5.a) Explain about various types of XML parsers. How are XHTML elements and attributes represented in the java script DOM? Explain.	binding to [5+5]

b)	What potential advantages do servelets have over CGI programs? Explain.	[5+5]
* *	OR L.	
7.a)	Describe the life cycle of a java servlet and write a simple servlet that reads	three
	parameters from the form data.	
b)	Explain the differences between Generic Servlet and HttpServlet.	[5+5]

Write note on Common Gateway Interface (CGI).

Discuss about the features of JSP pages. Write in brief about JSP tag extensions and libraries. OR How does a Servlet communicates with a JSP page? Explain. What is Bean? Discuss how to create beans in JSP. Explain various operators and data types available in java script. Explain Document Object Model with suitable examples and code. OR 11.a) Explain about object, methods and events in Java Scripts. b) Write short notes on simple Ajax application.					[5+5] [5+5] [5+5]	
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Code No: 126EV JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech III Year II Semester Examinations, May - 2016 CLOUD COMPUTING

(Information Technology) Time: 3 hours Max. N	Marks: 75	
Note: This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part consists of 5 Units. Answer any one full question from each unit. Each question marks and may have a, b, c as sub questions.	A, Part B tion carries	
PART - A	(25 Marks)	
Define the concept of cluster. List and explain the elements of parallel computing. What is cloud computing paradigm? What are the Challenges of SaaS Paradigm? Explain. Define T Systems? Illustrate the steps in virtual machine provisioning process? What is AWS cloud? Discuss in detail about the services offered by Amazon AWS. State data security in cloud. Mention the pros and cons of content level security?	[2] [3] [2] [3] [3] [2] [3] [2] [3] [2]	
PART - B	(50 Marks)	
Explain the characteristics and types of virtualization in cloud computing. OR What are the various technologies used for distributed computing? Explain them in detail.	[10] in any one of [10]	
List and explain in detail about various types of cloud.	[10]	
OR With a neat diagram explain the architecture of cloud reference model.	[10]	
With a neat diagram explain virtual machine life cycle.	[10]	
OR List and explain the various scientific applications of cloud.	[10]	ì
Describe in detail about Automated Policy-based Management OR	[10]	- Commence of the Commence of
Explain how Performance Prediction is done for HPC on Clouds.		
With a neat sketch explain in detail about cloud services life cycle.	[10)]
Discuss the Framework to Comprehend the Competitive Environment.)]

B.Tech. IV – I Semester Examination

Model Paper – I

CLOUD COMPUTING

(INFORMATION TECHNOLOGY)

PART - A (Marks 25)

Answer All the Questions

- 1. (a) List the disadvantages of hype cycle.
 - (b) List the advantages of programming level virtualization
 - (c) What is VIM?
 - (d) Discuss in brief about various types of cloud service brokerages.
 - (e) What points should be considered for proper migration of VM?
 - (f) What is elasticity rule? Also mention its types.
 - (g) Write about session-based algorithm.
 - (h) Write about rackspace cloud files.
 - (i) Write short notes on reward and management system.
 - (j) Explain the term,
 - (i) Process
 - (ii) Skills and competencies

$$PART - B (Marks 5 x 10 = 50)$$

- 2. (a) What is a cloud? Discuss the three service models of cloud computing in a cloud landscape.
 - (b) Explain in detail about SSI

OR

- 3. Discuss about hardware support for virtualization.
- 4. Explain in details about the roots of cloud computing.

OR

- 5. Write a detailed note on SaaS integration products.
- 6. (a) Describe VM provisioning process
 - (b) What is Eucalyptus? Explain the architecture of Eucalyptus.

OR

- 7. (a) What is T-system? Give a brief account on what enterprises demand of cloud computing.
 - (b) Write short notes on,
 - (i) SAGA
 - (ii) SAGA Montage
- 8. (a) What are the two types of SLAs from the perspective of application hosting? What are the challenges of provisioning the infrastructure on demand?
 - (b) List out the issues that must be considered for grid and cloud integration. What are the two approaches that have been proposed for grid and cloud integration?

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- 9. Give the entity relationship diagram for meta CDN database and explain its architecture.
- 10. Discuss in detail about deming cycle.

OR

11. Discuss in detail about various cloud computing models.

B.Tech. IV – I Semester Examination Model Paper – II CLOUD COMPUTING (INFORMATION TECHNOLOGY) PART – A (Marks 25)

Answer All the Questions

- 1. (a) Write short notes on MapReduce?
 - (b) Write short notes on independent checkpointing?
 - (c) What is automatic computing?
 - (d) What are the four adoption strategies?
 - (e) List the characteristics of private cloud?
 - (f) Explain the need for cloud mashups?
 - (g) List out the issues that arise while adopting cloud paradigm in HPC context?
 - (h) What is a service application?
 - (i) Define organizational readiness.
 - (j) What is an information card?

PART - B (Marks 5 x 10 = 50)

2. Explain various file handling utilities and process utilities?

OR

- 3. What are the performance metrics associated with distributed system? Discuss various dimensions of scalability?
- 4. What is a virtual infrastructure manager (VIM)? Give its features?

OR

- 5. Explain the various cloud integration mythologies?
- 6. Explain in detail about VM migration on services?

OR

- 7. Discuss in detail about CaaS service design?
- 8. Explain the principles and fundamental requirements of cloud providers to migrate grow and shrink the virtual applications?

OR

- 9. What is AWS? Explain the best practices that help in building an application in the cloud?
- 10. Briefly explain the change management maturity model?

OR

11. Explain in detail about cloud service life cycle and its stages?

B.Tech. IV – I Semester Examination

Model Paper – III

CLOUD COMPUTING (INFORMATION TECHNOLOGY) PART – A (Marks 25)

Answer All the Questions

- 1. (a) What are cyber physical systems?
 - (b) What is authentication in distributed systems?
 - (c) Discuss any three features of laaS.
 - (d) Write short notes on SaaS cloud service offering
 - (e) What are the three forms of lease?
 - (f) What are the key motivations for autonomic cloud bursts?
 - (g) List out the issues for a grid and cloud integration.
 - (h) Explain the need for cloud mashups
 - (i) Write short notes on environment factors.
 - (j) Define production readiness.

PART - B (Marks 5 x 10 = 50)

2. Explain in detail about grid infrastructure

OR

- 3. (a) Write short notes on check pointing.
 - (b) List the feature and applications of MOSIX
- 4. (a) Discuss briefly the features of PaaS provider.
 - (b) Explain in detail the steps to be followed in order to migrate into a cloud.

OR

- 5. Explain in detail the adoption and consumption strategies.
- 6. Write any two secure methods used in different commercial cloud services.

OR

- 7. Explain with a neat diagram the architecture of workflow management system.
- 8. Explain the comparison between classical HPC systems and the new cloud paradigm.

OR

- 9. Write a short notes on,
 - (a) User-centric clouds
 - (b) Multimedia streaming
- 10. (a) Discuss in brief about the cloud computing and data security risk.
 - (b) List the pros and cons of content level security.

OR

11. Define the term service management and discuss the producer-consumer relationship.

Code No: 126EW JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech III Year II Semester Examinations, May - 2016 DATA WAREHOUSING AND DATA MINING (Information Technology) Time: 3 hours Max. Marks: 75 Note: This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions. (25 Marks) Define concept hierarchy. [2] What is meta data repository? [3] What are the challenges of KDD? [2] What is data mining? Define association rule. Define maximal frequent itemset. [3] Why is tree pruning useful in decision tree induction? [2] [3] Define Bayesian belief network. What is clustering? [2] How does Chameleon work? PART - B (50 Marks) Explain any two of the schemas for multidimensional databases. b): Describe Fully Addictive, Semi-Addictive, Non Addictive Measures. What are OLAP operations in the multidimensional data model? Explain. 3.a) b) Describe efficient computation of data cubes. [5+5] Discuss about dimensionality reduction. Explain in detail about data cleaning. List and describe the five *primitives* for specifying a data mining task.

5.a)

In real-world data, tuples with missing values for some attributes are a common b) occurrence. Describe various methods for handling this problem. [5+5]

Write the the Apriori algorithm for discovering frequent item sets for mining Boolean association rules.

OR

How can we mine closed frequent item sets? Explain.

Write the FP-growth algorithm.

8. 	reasoning).		advantages of eager c lazy classification (e.,	g., k- earest neight	
b) - 4/1 a)	Write and ownless at	approaches f	ng the Best Split? Explor classification probl	lain. ems? Explain.	[5+5]
(1.50.	Write and explain about the Describe distance bases	ed outlier det	tection.		
	Briefly describe the hierarchical methods for methods for examples in each case.	r high-dime	nsional data, and c	-based methods, onstraint-based	model-based methods. Give
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Code No: 126EB

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech III Year II Semester Examinations, May - 2016

HUMAN VALUES AND PROFESSIONAL ETHICS

(Common to EEE, ME, ECE, EIE, IT, MCT, AE, MIE, PTE, AGE)

Time: 3 hours

Max. Marks: 75

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A

(25 Marks)

What is the need for 'Value Education' in technical and other professional institutions? What is the difference between 'belief' and 'understanding'? Suggest any 2 programs that you can undertake to improve the health of your body? [3] How do we go into conflicts when our activities are not guided by one natural Explain the term "Anu - Sangita". [3] What can be the basis of an undivided society- the "World family"? [2] Define sah-astitya? [3] Explain the term "nature submerged in space" with reference to existence? [2] What are the objectives of professional ethics? [3] Differentiate existence and co-existence. [2] [3]

PART - B

(50 Marks)

Justify the role of self exploration as in the process of Value Education? What are pre conditions? What is their source?

[5+5]

Critically examine the prevailing notion of happiness and prosperity and their consequences? b)

What is the true essence of happiness and prosperity?

[5+5]

What are the consequences of confusion between Sukh and Suvidha? fla) b)

"Human being is more than just the Body"- explain?

[5+5]

OR Why are the Physical facilities required? What do you mean by right utilization of

How does realization and understanding lead to definiteness of human conduct?

Na b	The major crisis in today's society is that of To What is "Justice" what are its four elements?	ust and Respect-Elucidate? Is it a continuous or a temporary	need? [5+5]
(a) (b)	Vyavastha? Vyavastha? Of Education and Sanska	our in society conducive to mara? How does Sanskara follow edu	naviya cation? [5+5]
(b)		of flater of	[5+5]
938	Explain the four orders in nature. Differentiate between units and space. How as	re units self-organized in space?	[5+5]
10.	Mention the steps that you can take to pro- unethical practices prevailing?	note ethics among your colleag	gues over [10]
(b)	Explain the holistic alternatives and describe to Explain the competence process in profession	he vision for the holistic alternate all ethics.	ives.
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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year II Semester Examinations, May - 2016 OBJECT ORIENTED ANALYSIS AND DESIGN (Common to CSE, IT)

Time: 3 hours

Max. Marks: 75

(25 Marks)

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries

10 marks and may have a, b, c as sub questions.

PART - A	I	A	R	I	1	A
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What is an artifact?				[2]
What are the adornr	nents in the UML?			[3]
What is navigation?				[2]
Explain the levels of	f visibility.			[3]
What is use case dia	gram?		***	[2]
What are interaction	diagrams?			[3]
What is a componen	t?			[2]
What is a deploymen				[3]
	on uses of deploymen	t diagrams?		[2]
What are the three k				[3]

PART - B

(50 Marks)

What are behavioral things? Explain.

What is UML? Where can the UML to be used?

What are the principles of modeling? Explain.

Draw the architecture of a software-intensive system and explain.

[5+5]

.[5+5]

What are the various kinds of Classifiers? Explain.

How to model the seams in a system?

OR

Explain about generalization with an example.

Describe interfaces, types and roles with examples

[5+5]

Explain about use cases and actors and use cases and flow of events.

How to model a flow of control?

[5+5

OR

Explain sequence diagram with suitable example.

How to model the requirements of a system?

[5+5]

K.ay	Explain the following: 1) History states 1) Time and space How to model an API?	OR		[5+5]
9.30	How to model an embedded system? Differentiate the following: Components and classes Nodes and components.			[4+6]
) 0.	Explain the following: a) Patterns and architecture b) Modeling an executable release.	OR		[5+5]
JY.	Draw the following diagrams for the a) Class diagrams b) Interaction diagrams.	unified library appl	ication:	[5+5]
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JAWAHARLAL NEHRU TECH

1256

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD Code No: 126ER B. Tech III Year II Semester Examinations, May - 2016 SOFTWARE TESTING METHODOLOGIES

(Common to CSE, IT)

Time: 3 hours

Max. Marks: 75

Note: This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

P	ART - A	(25 Marks)
Define testing and debugging. What are the elements of flow graph What is Data-flow testing?		[2] [3] [2] [3]
Give an example of a transaction-flo What is domain testing? Define linear vector space. What are distributive laws? Give examples of four variable KV- Define state-transition table.		[2] [3] [2] [3] [2]
What is partial ordering relation?	ART - B	[3] (50 Marks)

feet ext	True Trees	a like		(50 Marks)
2.a) Distingt	ish the follow	ring: e		
ii) The b	uilder vs Buye uld you go ab	out quantifying the nightmare? E	xplain:	[5+5]
		OK		
3.a) Is completely What are	ete testing pos the three kind	sible? Explain. Is of loops? Explain with examp	le.	[5+5]
4 M. Describe	the complicat	ions of transaction flows.		15+5
What are	data-flow and	omalies? Explain.		Lota
		OD		

51 Define transaction flow testing. Explain transaction flow structure.

[5+5] Explain about the data-flow model with example.

What are the restrictions of domain testing? Explain. [5+5] How to test two-dimensional domains? Explain. OR

What is the strategy of domain testing? Explain in brief. Discuss about domains and testability.

9 a) E W 10. Ex b)	s structure".	[5+5] [5+5] [3+4+3]			
11. Exp	Properties of relation plain the following: Software implement Applications of grap	ation of state gr	OR aphs.		[5+5]
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