Danistan Na								
Register No.								
register 1100								

## FACULTY OF ENGINEERING & TECHNOLOGY, SRM UNIVERSITY DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Cycle Test – I/Evaluation form Academic Year: 2017-2018

Program offered: B.Tech(CSE)

Max. Marks: 50

Year / Sem: III/V

Duration: 2 Periods

Date of Exam: 29-08-2017

Course Code and Title: 15CS424E SEMANTIC WEB

This course provides the students with the concepts to create the Semantic Web include a systematic treatment of the different languages like XML, RDF, OWL, and rules and technologies (explicit metadata, ontologies, and logic and inference) that are central to Semantic Web development.

INSTRUCTIONAL OBJECTIVES

At the end of the course, student will be able to

1. An ability to understand the concepts behind a semantic web and use

2. A recognition of the need for such web services and an ability to use the semantic web for effective conduction of life of every living being.

Question No.	Reference to IO	Reference to Outcome	Marks Allotted (Total 50)	Marks Scored	Outcomes Met Yes / No
1.	1	a	4		
2.	2	b	4		
3.	2	b	4		
4.	1	a	4		
5.	2	b	4		
6.	1	a	15		
7.	1	a	15		
8.	2	b	15		
			TOTAL		

Faculty Name: Vaishnavi Moorthy

**Signature:** 

Dogictor No								
Kegister no.								
register 1100								
_								

# FACULTY OF ENGINEERING & TECHNOLOGY, SRM UNIVERSITY DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Cycle Test – I/Question paper Academic Year: 2017-2018

Program offered: B.Tech(CSE) Year / Sem: III/V

Max. Marks: 50

Duration: 2 Periods
Date of Exam: 29-08-2017

Course Code and Title: 15CS424E SEMANTIC WEB

## SET - A

Answer **ALL** questions

5\*4=20

Sl. No	Question	Course Outcome	Bloom's Taxonomy	Marks
1	Differentiate between Syntactic Web and Semantic Web	a	Knowledge	4
2	What all information can be obtained from ontologies?	b	Analyze	4
3	Sketch the vocabulary differentiating RDF and RDFS	b	Design	4
4	List the Syntactic rules for well formed XML documents	a	Knowledge	4
5	Write the axiomatic semantics of RDFS for subClassOf	b	Interpret	4

### PART B

Answer any **TWO** questions

2\*15=30

Sl. No	Question	Course Outcome	Bloom's Taxonomy	Marks
6.	Describe the Layered Approach of Semantic Web	a	Knowledge	15
7	<ul> <li>i) Elaborate the comparison between unstructured, semi structured and unstructured data</li> <li>ii) State the limitations of the expressive power of RDF Schema</li> </ul>	a	Knowledge	7
8	Develop an XML coding representing Tree Representation for a Library Management	b	Design, Interpret	15

Register No.								

#### FACULTY OF ENGINEERING & TECHNOLOGY, SRM UNIVERSITY DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

**Cycle Test – I/Evaluation form** Academic Year: 2017-2018

**Program offered: B.Tech(CSE)** 

Year / Sem: III/V Max. Marks: 50 **Duration: 2 Periods** 

Date of Exam: 29-08-2017

Course Code and Title: 15CS424E SEMANTIC WEB

This course provides the students with the concepts to create the Semantic Web include a systematic treatment of the different languages like XML, RDF, OWL, and rules and PURPOSE technologies (explicit metadata, ontologies, and logic and inference) that are central to Semantic Web development. INSTRUCTIONAL OBJECTIVES STUDENTOUTCOMES At the end of the course, student will be able to 1. To understand the concepts behind a semantic web and use OWL language a 2. Recoginize the need for such web services and an ability to use the b semantic web for effective conduction of life of every living being.

Question No.	Reference to IO	Reference to Outcome	Marks Allotted (Total 50)	Marks Scored	Outcomes Met Yes / No
1.	1	a	4		
2.	2	b	4		
3.	2	b	4		
4.	1	a	4		
5.	2	b	4		
6.	1	a	15		
7.	2,1	b,a	15		
8.	2	b	15		
			TOTAL		

Faculty Name: Vaishnavi Moorthy

**Signature:** 

1									
	D NT .								
	Register No.								
	Tree Tree Tree								
	Register 140.								

# FACULTY OF ENGINEERING & TECHNOLOGY, SRM UNIVERSITY DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Cycle Test – I/Question paper Academic Year: 2017-2018

**Program offered: B.Tech(CSE)** 

Max. Marks: 50

Year / Sem: III/V Duration: 2 Periods

Date of Exam: 29-08-2017

Course Code and Title: 15CS424E SEMANTIC WEB

#### SET - B PART A

Answer **ALL** questions

5\*4=20

Sl. No	Question	Course Outcome	Bloom's Taxonomy	Marks
1	Compare and contrast XML and HTML	a	Knowledge	4
2	Illustrate the Data type restrictions in XML	b	Design	4
3	What is the need of personal agents in semantic web?	b	Design	4
4	List the principles followed in Semantic Web	a	Knowledge	4
5	Write the axiomatic semantics of RDFS for	h	Interpret	4
	subPropertyOf	U		4

### PART B

Answer any **TWO** questions

2\*15=30

Sl. No	Question	Course Outcome	Bloom's Taxonomy	Marks
6.	Illustrate the evolution of traditional web to Semantic web	a	Knowledge	15
7	<ul><li>i) Illustrate the Reification mechanism</li><li>ii) Compare entity-relationship model of RDF</li></ul>	b a	Interpret Knowledge	8 7
8	Develop an XML coding representing Tree Representation for a email Generation	b	Design, Interpret	15