U.S.N					

## P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belagavi)

## Sixth Semester, B.E. - Computer Science and Engineering Semester End Examination; May / June - 2019 Semantic web Technologies

Time: 3 hrs Max. Marks: 100

Note: Answer FIVE full questions, selecting ONE full question from each unit.

## UNIT - I

	01411 - 1						
1 a.	Briefly explain intelligent web applications.	6					
b.	Illustrate the limitations of today's web. Elaborate the feature of next generation web.						
c.	Explain how intelligent ubiquitous devices improve productivity?						
2 a.	a. Give an overview of the following:						
	i) Machine intelligence ii) Artificial intelligence						
b.	What is semantic web? With a neat diagram, explain markup language pyramid.	10					
	UNIT - II						
3 a.	Explain RDF triple by considering RDF statement "The book has the title Balaguruswamy,						
	Padmareddy and Pradeep: C programming" and also write RDF serialized form.	10					
b.	e. Explain with example RDF schema.						
4 a.	What is ontology? Explain three different sublanguages that are defined by W3C.						
b.	Explain basic elements of ontology web language.	10					
	UNIT - III						
5 a.	What is ontology engineering? List and explain ontology applications.						
b.	Explain the iterative approach for constructing ontology.						
6 a.	Explain the working of inference engine.						
b.	b. Describe RDF inference engine with suitable example.						
	UNIT - IV						
7 a.	Explain the functions that automate OWL-S web services.						
b.	Briefly explain three types of process defined by OWL-S.						
8 a.	Write a short note on; i) Cerebra ii) SMORE.						
b.	List and explain semantic web services software tools.	10					
	UNIT - V						
9 a.	Give an overview of the following semantic web applications:	10					
	i) E-learning ii) Knowledge base	10					
b.	Describe enterprise application integration with example.						
10 a.	a. Explain Google search algorithm in detail.						
b.	b. Write a short note on:						
	i) TAP ii) SWOOGLE	10					