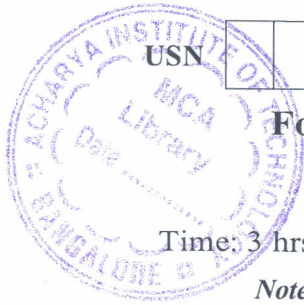


CBCS SCHEME

22MCA422



Fourth Semester MCA Degree Examination, June/July 2024 Semantic Web & Social Networks

Time: 3 hrs.

Max. Marks: 100

*Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. M : Marks , L: Bloom's level , C: Course outcomes.*

Module – 1			M	L	C
Q.1	a.	Describe the development history of World Wide Web.	10	L1	CO1
	b.	Explain Intelligent Web applications.	10	L2	CO1
OR					
Q.2	a.	Write a note on Information Age.	10	L1	CO1
	b.	With a neat diagram, explain the layers of semantic web.	10	L2	CO1
Module – 2					
Q.3	a.	Explain the basic elements of RDF language.	10	L2	CO1
	b.	How the semantic web is used for knowledge representation?	10	L1	CO1
OR					
Q.4	a.	Discuss RDFS with example to illustrate the domain and range property of RDFS.	10	L2	CO2
	b.	Describe the process of constructing ontology.	10	L2	CO2
Module – 3					
Q.5	a.	Describe Ontology web language.	10	L1	CO1
	b.	Explain the process of Ontology with “SPOT” example.	10	L2	CO3
OR					
Q.6	a.	Discuss about the Ontology methods, sharing and merging.	10	L1	CO4
	b.	Give an overview of the following : (i) Ontology logic rules. (ii) Inference engine	10	L2	CO4
Module – 4					
Q.7	a.	Explain the XML based web services and semantic web services.	10	L2	CO3
	b.	What is the role of Ontology in Semantic Web Services?	10	L1	CO4
OR					
Q.8	a.	Discuss about web search agents and semantic search technology.	8	L2	CO3
	b.	Explain OWL-S services profiles and explain OWL-S ontology is created for web services.	12	L2	CO4
Module – 5					
Q.9	a.	Explain how semantic web application is build with social network features.	10	L2	CO2
	b.	In detail explain web-based network.	10	L3	CO4
OR					
Q.10	a.	Explain briefly social network analysis and development of social network analysis.	10	L2	CO3
	b.	Write a short note on : (i) Blogs and online communities. (ii) Electronic discussion network.	10	L2	CO2
