Code No: 158FE **R18**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech IV Year II Semester Examinations, June - 2024
SEMANTIC WEB
(Computer Science and Engineering (Artificial Intelligence and Machine Learning))

Time: 3 Hours **Max. Marks: 75**

Note: i) Question paper consists of Part A, Part B.
ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.
iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

Used Papers 2024

PART – A

(25 Marks)

1.a)	How does XML fit into the semantic Web?	[2]
b)	Why do we need the semantic Web?	[3]
c)	What is SOAP?	[2]
d)	Describe Grid-enabled Web services.	[3]
e)	What is XML Base?	[2]
f)	Explain about XPath in detail	[3]
g)	Define frame-based KR.	[2]
h)	Give comparison of topic maps and RDF.	[3]
i)	What is e-learning?	[2]
j)	What are semantic methods?	[3]

PART – B

(50 Marks)

2. What is the semantic web good for? Explain in detail. [10]

OR

3. What are XML namespace? What is the Document Object Model (DOM)? [10]

4. Why use Web services? Explain in detail. [10]

OR

5. Explain about the basics of Web services. [10]

6. Discuss about the style sheet family in detail. [10]

OR

7. Explain about capturing knowledge with RDF in detail. [10]

8. Discuss about important semantic distinctions in detail. [10]

OR

9. What are topic maps standards? Explain about topic maps concepts. [10]

10. Explain the following:
a) Semantic Bioinformatics b) Swoogle [5+5]

OR

11. Explain the following:
a) Semantic Web Services b) Web Search Agents. [5+5]

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