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**ANNA UNIVERSITY (UNIVERSITY DEPARTMENTS)**

**B.E. / B. Tech / B. Arch (Full Time) - END SEMESTER EXAMINATIONS, APRIL / MAY 2024**

**B.E. GEOINFORMATICS**

**6<sup>th</sup> Semester**

**GI5014 - WEB GIS**

**(Regulation 2019)**

Time: 3hrs

Max. Marks: 100

CO 1	Understand the concept and Architecture of Web GIS and tools used for implementation.
CO 2	Utilise various capabilities of HTML, CSS for building Web Pages.
CO 3	Understand the concepts of Java such as functions, objects, events.
CO 4	Identify the capabilities of Python Scripting for Web GIS development.
CO 5	Appreciate the use Web GIS services and Geoserver functionality for Spatial data Dissemination.

**BL – Bloom's Taxonomy Levels**

(L1 - Remembering, L2 - Understanding, L3 - Applying, L4 - Analysing, L5 - Evaluating, L6 - Creating)

**PART- A (10 x 2 = 20 Marks)**

(Answer all Questions)

Q. No	Questions	Marks	CO	BL
1	Differentiate JSON and GeoJSON?	2	1	2
2	List any four backend and frontend programming languages that support web GIS.	2	1	1
3	List the various types of HTML Elements.	2	2	1
4	Explain the various methods for adding CSS to HTML documents.	2	2	2
5	Explain the use of the "type of" operator in JavaScript with a suitable example.	2	3	2
6	Write down the benefits and drawbacks of utilizing an external JavaScript file.	2	3	1
7	What is the use of the "array push" function in PHP?	2	4	1
8	Differentiate MySQL and PostgreSQL.	2	4	2
9	List the different types of services offered through web GIS.	2	5	1
10	What are the top-level XML files in GeoServer containing about the services and various global options?	2	5	1

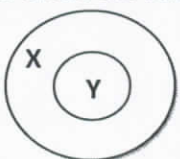
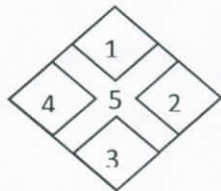
**PART- B (5 x 13 = 65 Marks)**

(Restrict to a maximum of 2 subdivisions)

Q. No	Questions	Marks	CO	BL
11 (a)	Analyze the potential of the various types of web maps with real-time examples.	13	1	4
<b>OR</b>				
11 (b)	Analyze the client/server architecture of Web GIS with a neat sketch.	13	1	4
12 (a)	Examine the significance of HTML elements and attributes in web mapping applications with suitable examples.	13	2	3
<b>OR</b>				
12 (b)	Examine the use of CSS in the HTML table tags with suitable examples.	13	2	3

13 (a)	Examine the JavaScript - HTML DOM Methods.	13	3	3
OR				
13 (b)	Examine the various data types used in JavaScript.	13	3	3
14 (a)	Analyze the use of different arrays in PHP with suitable examples.	13	4	4
OR				
14 (b)	Analyze the various methods to connect PHP to MySQL.	13	4	4
15 (a)	Argue the merits and demerits of publishing a shapefile and database file on the web using GeoServer.	13	5	5
15 (b)	Compare the significance of the SLD Cookbook of GeoServer and CSS in presenting the symbols on the web mapping applications.	13	5	5

**PART- C (1 x 15 = 15 Marks)**  
(Q.No.16 is compulsory)

Q. No	Questions	Marks	CO	BL
16.	<p>Generate the core part of the SLD code for launching the below-mentioned vector point shapes through Geoserver.</p> <p>(a) The x and y in the circle are filled with red and green color.</p>  <p>(b) The fill color of shapes 1 and 3 are yellow, 2 and 4 are red, and 5 is green.</p> 	<p>7</p> <p>8</p>	<p>5</p> <p>5</p>	<p>6</p> <p>6</p>

