

**MASTER OF SCIENCE (GEOINFORMATICS) (CBCS-2019 COURSE) M.
Sc. (GEOINFORMATICS) Sem - II : WINTER : 2021
SUBJECT: WEB GIS**

Day :Wednesday

Date :29-12-2021

W-21258-2021

Time : 10:00 AM-01:00 PM

Max.Marks 60

N.B.

- 1) Attempt **ANY FOUR** questions from Q.No. 1 to Q.No. 5.
- 2) Q.No. 6 is **COMPULSORY**.
- 3) Figures to the **RIGHT** indicate **FULL** marks.
- 4) Draw diagrams **WHEREVER** necessary.

Q.1 a) Draw a schematic diagram of the WebGIS concept and explain each component very briefly. **(06)**

b) Why do we need spatial data infrastructure? Add a note on NSDI. **(06)**

Q.2 a) Describe the characteristics of an HTTP. **(06)**

b) 'Web GIS application is only as good as the underlying database'. Justify this statement by describing the capabilities of a strong GIS database. **(06)**

Q.3 a) Describe the two key roles of a WebGIS client. **(06)**

b) Web GIS application = basemaps +operational layout tools. Explain two key features of basemaps, operational layers and tools. **(06)**

Q.4 a) Write a short note on web services describing need, role and advantages. **(06)**

b) What is a REST web service? List the key features of a REST web service. **(06)**

Q.5 a) What is a Web Map Service? Describe its features. **(06)**

b) Describe the challenges in building a geospatial mashup. **(06)**

Q.6 Write short notes on **ANY THREE** of the following: **(12)**

- a)** OGC
- b)** Routing services
- c)** Data warehouse
- d)** Components of an URL
