

Name:

Enrolment No:

**UNIVERSITY OF PETROLEUM AND ENERGY STUDIES**

**End Semester Examination, December 2019**

**Course: Geospatial Programming**

**Semester: III**

**Program: B.Tech GIE**

**Time 03 hrs.**

**Course Code: PEGS 2014**

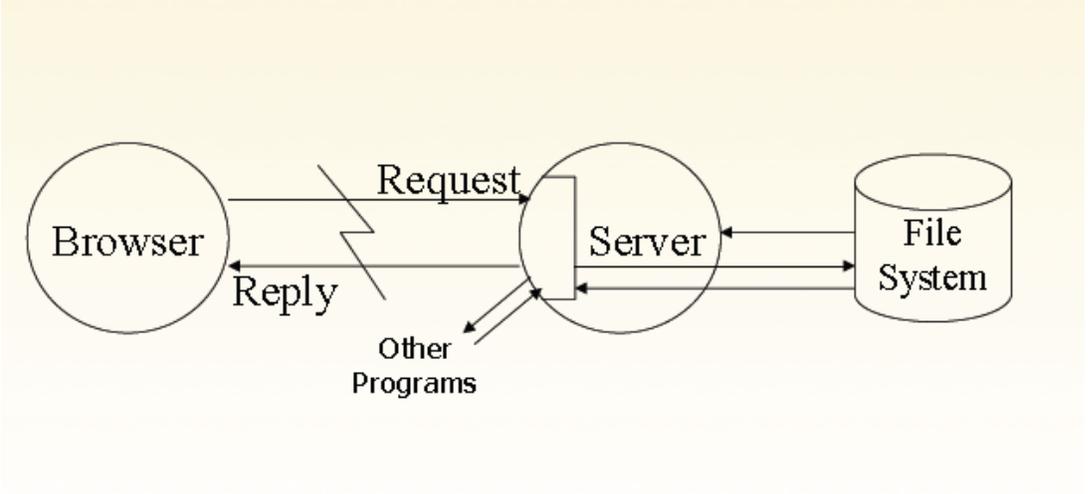
**Max. Marks: 100**

**Instructions: Attempt all questions. However, there are internal choice in some question.**

**SECTION A**

S. No.		Marks	CO
Q 1	Define the steps to load and display a 3D web scene into ArcGIS Online.	5	CO1
Q 2	Evaluate the Geocoding service in ArcGIS python	5	CO2
Q 3	Briefly outline the features of ArcGIS network module	5	CO1
Q 4	Why HTML is not considered to be scripting language?	5	CO2

**SECTION B**

Q 5	Demonstrate the various capability of online GIS data processing through Jupyter notebook	10	CO3
Q 6	Evaluate the components, merits/demerits of thin and thick client architecture	10	CO4
Q 7	Evaluate the server side web scripting language with example from given figure 	10	CO4
Q 8	Evaluate the ArcGIS Desktop Component Object Model(COM) with suitable sketch diagram <b>OR</b> Demonstrate the potential application of GPS, smartphone and laptop in location based services	10	CO3

**SECTION-C**

Q 9	Develop a suitable geospatial solution using model builder for any surface/subsurface resource mapping	20	CO5
Q 10	Develop an automated Jupyter notebook for python algorithms/model for loading data and display a web map into ArcGIS Online <b>OR</b> Analyze the history of geospatial analysis. How remote sensing and GIS can be useful in providing geospatial solution to geoscientific community?	20	CO5, CO4