

SARDAR PATEL UNIVERSITY

M.Sc. (Information Technology)

SEMESTER -II

EXTERNAL EXAMINATION (April 2016)

PS02EINT04 (Geographic Information Systems)

Date: 12-04-2016

Marks: 70

Time: 10:30 am to 1:30 pm

Q-1 Give Answers of following Multiple Choice Questions [8]

1. What does the abbreviation "GIS" stands for?
(A) Geographical Information System
(B) Geological Information System
(C) Geographic Interpretation System
(D) Geoscience Interpolation Software
2. Which of the following datums is the best representation of the shape (or gravity field) of the entire earth?
(A) NAD 27 (B) NAD 83
(C) WGS 84 (D) WGS27
3. Which of the following are GIS packages?
(A) ArcGIS (B) MapInfo
(C) Idrisi32 (D) All of above
4. What is georeferencing?
(A) Aligning your data with a location on the Earth's surface
(B) Converting data to a feature class
(C) Projecting your data so that it has no distortion
(D) None of above
5. The original sources for the data and the processing steps it has undergone is known as _____
(A) Accuracy (B) Lineage
(C) Precision (D) Time
6. _____ Spatial query find all objects in the map that completely contain any object.
(A) Enclosure (B) Containment
(C) Clipping (D) Region
7. _____ indexes can be created for single or multiple fields in a geodatabase feature class.
(A) Single (B) Attribute
(C) Unique (D) All of above
8. The _____ toolbar contains the various commands you will need to edit your data.
(A) Custom (B) Image
(C) Feature (D) Editor

- Q-2 Answer the Following Short Questions (Any Seven) [14]**
1. Define Geodatabase. Explain multiple meaning of ArcGIS.
 2. List out three primary ways to create geodatabase in ArcGIS.
 3. Explain different ways to edit Values and Attributes.
 4. Write a note on Data Quality.
 5. What you mean by Map? Why it is required?
 6. What is Network? Define types of Networks.
 7. Enlist four M's of GIS.
 8. What is difference between GIS Map and Paper Map?
 9. Enlist any five GIS Software available for mobile with its features.
- Q-3 [A] Write a note on Attribute Indexes in a geodatabase. [6]**
Q-3 [B] Explain Architecture of Geodatabase. [6]
- OR**
- Explain Geodatabase designing steps.
- Q-4 [A] List down and write a note on Map elements. [6]**
Q-4 [B] Write a note on Map Generalization. [6]
- OR**
- Write a note on Basic Spatial Queries.
- Q-5 [A] Explain Data Sources in Brief. [6]**
Q-5 [B] Explain Components of GIS. [6]
- OR**
- Explain Topology in Brief.
- Q-6 [A] Write basic steps to carrying out a GIS project. [6]**
Q-6 [B] Explain any four issues to consider for choosing software to setup a web based GIS site. [6]
- OR**
- Write a note on OGC Standard.

WISH YOU ALL THE BEST