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SARDAR PATEL UNIVERSITY
M.Sc.(Information Technology)
SEMESTER-II
External Examination - 2015
PS02EINT04 :Geographic Information Systems
1st May,2015

Time:02:30pm to 05.30pm

Marks:70

Q1 Give answers of following Multiple choice questions

[8]

- 1 Large Scale maps cover ____ area.
A Small B Large
C Medium D Very Small
- 2 The _____ toolbar contains the various commands you will need to edit your data.
A Custom B Image
C Feature D Editor
- 3 _____ is used in Networks to restrict flow from that route.
A Flags B Barriers
C Sink D Junctions
- 4 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 WGS 27
- 5 In the world of GIS, another term for the property of connectivity is:
A proximity B neighborhood
C topology D boolean identity
- 6 _____ features that are too small to represent as lines or polygons as well as point locations.
A Line B Point
C Polygons D Annotations
- 7 Degree of correspondence between data and the real world can be known as ____
A Accuracy B Lineage
C Precision D Time
- 8 What does the abbreviation "GIS" stands for?
A Geographical Information System B Geological Information System
C Geographic Interpretation System D Geoscience Interpolation Software

Q2 Do as directed (Any 7)

[14]

- 1 What is a Datum?
- 2 Write down steps to create personal geodatabase using ArcCatalog or catalog window in ArcMap.
- 3 Write a note on Legend, Title and Source of Map with Example.
- 4 Define Map Generalization. Why it is necessary?
- 5 Enlist any five GIS Software packages.
- 6 Explain Point, Line and Polygon.
- 7 Explain Attribute data types in the geodatabase.
- 8 List down different types of Grid (Raster) Analysis.
- 9 Write a note on Web Based Mapping.

- Q3 [A] What is GIS? Benefits of GIS and Explain Application of GIS. [6]
Q3 [B] What is Topology in GIS ? Enlist types of Topology. Explain any 3 type of Topology in Brief. [6]
- OR
- Q3 [B] Explain Projection in Brief. [6]
Q4 [A] Explain Architecture of Geodatabase. [6]
Q4 [B] Write a note on Geodatabase with comparing the three types of Geodatabase. [6]
- OR
- Q4 [B] Write a note on spatial adjustment Rubber Sheeting. [6]
Q5 [A] What you mean by Digital Map? How it is being generated in ArcGIS? [6]
Q5 [B] Write a note on Map Generalization. [6]
- OR
- Q5 [B] List down and define each Procedures and types of Network Analysis. [6]
Q6 [A] Write a note on "Design a GIS Project". [6]
Q6 [B] Write a note on Measurement on Raster Data and Vector Data. [6]
- OR
- Q6 [B] Write a note on OGC standard. [6]