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PG (NEW) CBCS
M.A. /M.Sc. Semester-IV Examination, 2020
GEOGRAPHY
PAPER: GEO 495 (PRACTICAL)
(GEODESY AND GIS)

Full Marks: 40 **Time: 4 Hours**

Write the answer for each unit in separate sheet

UNIT-I

495.1: MAP TRANSFORMATION AND GEODESY

Answer any one question of the following: **20X1=20**

1. Draw the graticules of Mollweide's projection at 30^0 intervals, where the radius of the generating globe is 2.50 cm with its principle and properties. What are the principles of choosing of map projection? 15+5
2. Elaborately discuss co-ordinate system that generally used in map transformation.
3. Draw the graticules of Mercator's projection at 20^0-degree interval on scale 1: 290 x 10^6 for whole globe with its principles, construction and uses. What is scale factor? 15+5
4. Write short note about WGS-84 and Everest spheroid. What is geoid? 20
5. Draw the graticules of Simple Conical projection with II standard parallels for the extension of 20^0 degree north to 80^0 north and 120^0-degree east to 20^0-degree west on scale 1: 160 x10^6. What is UTM grid system? 15+5
6. Write down the importance of map projection in GIS. What is spheroid? What are the types of distortion that occur during map transformation? 20

UNIT-II

(GEO 495.2: GEOGRAPHIC INFORMATION SYSTEM)

Answer any one question of the following: **20×1=20**

1. How raster data structure different from vector data structure. 20
2. Give a structure of Web GIS and state two prospective and constrains of Web GIS. 20
3. Write a short note on GPS Segment. 20
4. Give a brief account of Watershed mapping using 3D GIS. 20
5. Write a short note on the components of GIS. 20
6. Describe the working principle of GNSS and GDPS. 20

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