

Total No. of Printed Pages : 4

Roll No.....

MGIS-07
ADVANCE GIS AND RS

Master of Geographical Information System

(MGIS-11/16/17)

Second Year, Examination-2020

Time Allowed : 2 Hours

Maximum Marks : 80

Note : This paper is of Eighty (80) marks divided into Two (02) sections A and B. Attempt the question contained in these sections according to the detailed instructions given therein.

Section-A

(Long Answer Type Questions)

Note : Section-'A' contains Five (05) long answer type questions of Twenty (20) marks each. Learners are required to answer any two (02) questions only. (2×20=40)

1. What is 3D GIS? Explain role of CityGML and WebGL in 3D GIS.
2. What is Side Looking Aerial Radar (SLAR)? Explain the major difference between SLAR and Synthetic Aperture Radar (SAR).
3. What is Web GIS? Explain Service Oriented Architecture (SOA) for Web GIS implementations.
4. What is NSDI? Explain data and Metadata standards for NSDI with specific example of Indian NSDI.
5. What is Open Source GIS? Discuss popular open source GIS software products for three major categories i.e. Desktop, Mobile and Web GIS.

Section-B

(Short answer type questions)

Note: Section-B Contains Eight (08) short answer type questions of Ten (10) marks each. Learners are required to answer any four (04) questions only. (4×10=40)

1. What is thermal Remote Sensing? Describe various applications of thermal Remote Sensing.
2. What is Microwave SAR and why it is required?
3. What is the difference between Land Use and Land cover? Describe with examples.
4. What is PCA?

5. What is Hyperspectral Remote Sensing?
6. What is spectral and radiometric resolution in Remote Sensing?
7. What is user spatial modelling in GIS?
8. What is GNSS? Discuss the GPS and NaVIC/IRNSS.
