- 1. What is Modelling in GIS? Explain different types of medels with examples.
- 2. What is thermal Remote Sensing? Explain basic thermal radiation principles, process and properties.
- 3. What is Geweb Services? Explain WMS, WFS, WCS and WPS with its uses.
- 4. What is PCA? Explain PCA transformation process.
- 5. What is Hyperspectral Remote Sensing? Explain Spatial scanning, Spectral scanning, Non-scanning and Spatio-spectral scanning.

Section - B (Short-Answer-Type Questions)

Note - Section 'B' contains Eight (08) short-answertype questions of Seven (07) marks each. Learners are required to answer any Five (05) questions only. $(5 \times 7 = 35)$

- 1. What is LIDAR technology in Remote Sensing and why it is required?
- 2. What is Microwave SAR?
- 3. What is the difference between Land Use and Lanc cover? Describe with examples.
- 4. What is Spatial Data Infrastructure?
- 5. What is 3D GIS? Describe applications of 3D GIS.

6. What is Spectral Rationing?

- 7. What is WMS and WFS?
- 8. What is OGC? Which OGC standard is used for online Geo-processing?

MGIS-07

Advance GIS and RS Master of Geographical Information System (MGIS-11/16/17)

Second Year, Examination - 2019

Time: 3 Hours Max. Marks: 80

Note - This Paper is of Eighty (80) marks divided into two (02) Sections A and B. Attempt the Questions 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 Fifteen (15) marks each. Learners are required to answer any Three (03) questions only.

 $(3 \times 15 = 45)$