



RMP – 19

B.A. B.Ed. (Semester – VI/VIII) Examination, April/May 2019

GEOGRAPHY

Practical Paper – VI : Remote Sensing and GIS

Duration : 4 Hours

Total Marks : 100

Instructions : i) **All questions are compulsory.**

ii) **Figures to the right indicates maximum marks.**

1. A) Define the following (**any five**).

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- i) Temporal Resolution
- ii) Swath
- iii) Principal point
- iv) Remote sensing
- v) Mosaic
- vi) GPS.

B) Describe the elements of image interpretation.

4

C) Calculate the following :

6

- i) The scale of the air photo is 1:30,000. Find out the total area represented by the photo when its dimensions are 10 cm × 15 cm.
- ii) The photo scale is 1:20,000 and the aeroplane is flying at a height of 5 km above mean sea level. Find out the focal length of the camera.
- iii) The photo scale of the aerial photograph is 1:10,000 and the focal length of the camera is 300 mm. Find out the flying height of the aircraft.

2. Study the aerial photograph provided to you and answer **any five** of the following.

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- a) Natural vegetation
- b) Land use and land cover
- c) Settlements pattern and distribution
- d) Water bodies
- e) Transport and communication
- f) Relief features.



3. Answer the following (**any four**).

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- a) State any five advantages of remote sensing.
- b) Explain in detail Geostationary and Sun-synchronous satellites.
- c) Discuss the components of Electromagnetic Radiation.
- d) Write on different types of films.
- e) Give five differences between maps and aerial photographs.

4. A) Draw a neat diagram explaining stages involved in remote sensing.

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B) Answer the following (**any three**) :

15

- i) List and explain in brief any five software used in GIS.
- ii) How are topographical maps and GPS, important data sources in GIS ?
- iii) Explain Raster and Vector data models with the help of a diagram.
- iv) Explain map overlays.

5. A) Journal.

5

B) Viva voce.

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