



**B.A. (Semester – V) Examination, October/November 2018**

**GEOGRAPHY**

**Practical – V : Map Analysis, Remote Sensing and Aerial Photography**

Duration : 4 Hours

Max. Marks : 100

**Instructions :** 1) *All questions are compulsory.*

2) *Figures to the right indicate full marks.*

3) *Non-programmable calculators are allowed.*

1. A) If the million Sheet No. 58 covers 20° to 24°N latitude and 72° to 76°E longitude. Show 58N, 58 G/NW and 58 K/10. 5  
B) Explain the indexing of ordnance survey sheets. 5  
C) Draw conventional signs and symbols for the following : 5
  - i) Light House
  - ii) Mine
  - iii) Tidal river
  - iv) Monument
  - v) Battle field.
2. Study the Survey of India toposheet and explain the following (Draw Sketches) : 25
  - a) Settlement pattern with reference to relief.
  - b) Comment on the land-use pattern.
  - c) Comment on the socio-economic activities in the area under study.
  - d) Discuss the transport and communication network in the region.
  - e) Account for the natural vegetation of the region.
3. A) Briefly discuss the major elements used in the interpretation of Aerial Photography (any 5). 5  
B) Explain the following : 5
  - i) Camera
  - ii) Air borne Platforms
  - iii) Temporal Resolution
  - iv) Photo scale
  - v) Focal length.
- C) Draw a neat labelled diagram to explain the Electro-magnetic spectrum. 5

P.T.O.



4. A) State any 2 advantages of Aerial Photography over Topographical mapping. 4
- B) Calculate the following : 6
- i) What is the scale of the Aerial Photograph if the flying height of the plane is 4000 metres and the Focal length of the camera is 20 cms.
  - ii) Find out the focal length of the camera if the scale is 1:20000 and height of the aircraft is 4 kms.
  - iii) If the map scale is 1:50000 and focal length of the camera is 15 mm, find out the flying height of the aeroplane.
- C) Study the aerial photography and answer the following (any three) : 15
- a) Physical Landscape
  - b) Residential areas
  - c) Transport lines
  - d) Vegetation.
5. Field report and viva-voce. 10
6. Certified Journal and Viva-voce. 10