

B.A. (Semester – VI) Examination, April/May 2018
GEOGRAPHY

Practicals – VI : Weather Map Interpretation, Satellite Imageries and GIS

Duration : 4 Hours

Total Marks : 100

- Instructions :** 1) *All questions are compulsory.*
 2) *Figures to the right indicate full marks.*
 3) *Draw sketches and diagrams wherever necessary.*

1. A) Draw weather symbols for the following : 5
 - i) Sandstorm ii) Snow
 - iii) Dust Whirl iv) Drizzle
 - v) Fog.

- B) Name the weather instruments used for measuring the following : 5
 - i) Rainfall ii) Pressure
 - iii) Temperature iv) Wind direction
 - v) Wind velocity.

- C) Draw isobaric patterns to show the following and explain them : 5
 - i) Cyclone
 - ii) Anti-cyclone.

2. Study the given weather map and answer **any five** of the following questions : 25
 - A) Discuss the trend of isobars and comment on the pressure gradient.
 - B) Explain the other weather phenomena observed on the map.
 - C) Account for the wind direction over the Indian subcontinent.
 - D) Observe and illustrate the sea conditions in the Bay of Bengal and the Arabian Sea.
 - E) Comment on the departure of minimum temperature from normal.
 - F) Discuss the distribution of rainfall over the Indian sub-continent.

3. A) Explain the following terms (**any 5**) : 10
 - i) Geographic co-ordinates ii) Temporal resolution
 - iii) Satellite imagery iv) Wavelength
 - v) Sensor and their types
 - vi) Polar orbiting satellites.

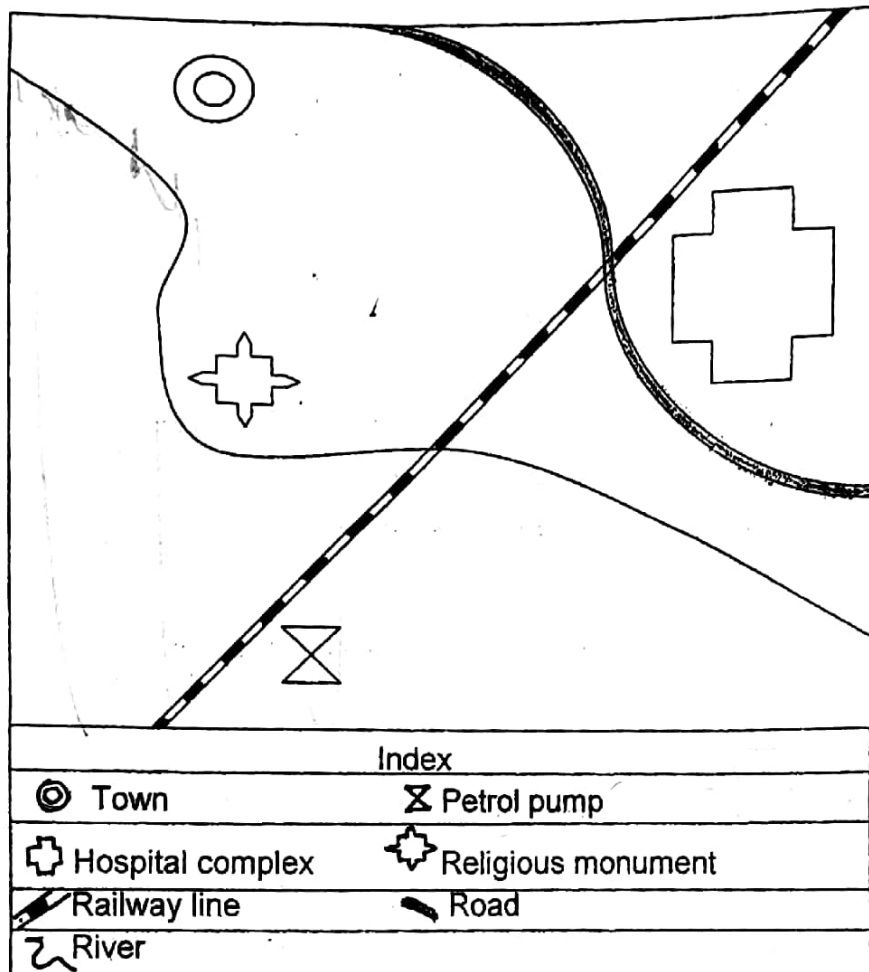


- B) Attempt **any two** of the following :
- Highlight the significance of satellite imageries in geographical studies.
 - Discuss the types of satellites studied.
 - Write a short note on electromagnetic spectrum.

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4. Answer the following (any 4) :

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A) Convert the above figure to Raster data and identify the data types.

(Size of Pixel = 0.5 cm)

- Define GIS and explain its capabilities.
- State the advantages of using GIS.
- Discuss the key components of GIS.
- What is thematic mapping in GIS.

5. Study tour report and viva-voce.

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6. Certified journal and viva-voce.

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