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ICSE

GEOGRAPHY

Based on the latest ICSE syllabus

— R K JAIN —

Includes
latest toposheets
G43S7 and
G43S10
issued by the
Survey of India

SCAN QR CODE

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10

CONTENTS

1. PRACTICAL GEOGRAPHY – STUDY OF TOPOGRAPHICAL MAPS
 2. STUDY OF TOPOGRAPHICAL SHEET NO. G43S7
 3. STUDY OF TOPOGRAPHICAL SHEET NO. G43S10
 4. PRACTICAL GEOGRAPHY – MAP OF INDIA
 5. INDIA – LOCATION, EXTENT AND PHYSICAL FEATURES
 6. INDIA – THE CLIMATIC CONDITIONS
 7. INDIA – SOIL RESOURCES
 8. INDIA – NATURAL VEGETATION
 9. INDIA – WATER RESOURCES
 10. INDIA – MINERAL RESOURCES (IRON ORE, MANGANESE, COPPER AND BAUXITE)
 11. INDIA – ENERGY RESOURCES (CONVENTIONAL)
 12. INDIA – ENERGY RESOURCES (NON-CONVENTIONAL)
 13. INDIA – AGRICULTURE
 14. INDIA – AGRICULTURE (CROPS I – RICE, WHEAT AND MILLETS)
 15. INDIA – AGRICULTURE (CROPS II – PULSES, OILSEEDS AND SUGAR CANE)
 16. INDIA – AGRICULTURE (CROPS III – COTTON AND JUTE)
 17. INDIA – AGRICULTURE (CROPS IV – TEA AND COFFEE)
 18. INDIA – INDUSTRIES
 19. INDIA – AGRO-BASED INDUSTRIES
 20. INDIA – MINERAL-BASED INDUSTRIES
 21. INDIA – MEANS OF TRANSPORT
 22. IMPACT OF WASTE ACCUMULATION
 23. NEED FOR WASTE MANAGEMENT AND METHODS OF SAFE DISPOSAL
 24. NEED AND METHODS FOR REDUCING, REUSING AND RECYCLING WASTE
- GEO-GLOSSARY 255

ICSE GEOGRAPHY

Class 10

**Chapter 3: Study of Topographical
Sheet No. G43S10**

GENERAL INFORMATION:

- ❖ Topo Sheet no. G43S10 is the Educational (OSM) Sheet with UTM grid.
- ❖ It shows the western part of India along the border of Rajasthan and Gujarat.
- ❖ It covers maximum portion of Sirohi district in Rajasthan and some parts of Banas Kantha district in Gujarat.
- ❖ The latitudinal extent of this region is from $24^{\circ} 30'N$ in the south to $24^{\circ} 45'N$ in the north.
- ❖ The longitudinal extent of this region is from $72^{\circ} 30'E$ in the west to $72^{\circ} 45'E$ in the east.
- ❖ The total area covered by this topo sheet is about $51 \text{ cm} \times 56 \text{ cm} = 714$ square km.
- ❖ The scale is 1 : 50000, i.e. 2 cm : 1 km and the contour interval is 20 metres. Every fifth contour is shown by a comparatively thicker line and is called as the index contour.
- ❖ The magnetic variation from the True North was about $\frac{1}{2}^{\circ}$ in 2015. It increases by about 3' East annually.
- ❖ The heights are in metres and above Indian mean sea level.
- ❖ The UTM grid is drawn in red colour at an interval of one km (ground distance). The Eastings and Northings are drawn 2 cm apart (map distance) on the map.

PHYSICAL FEATURES:

The northern, central and eastern parts are hilly, while the western part has undulating topography. The height of land in the southeast corner reaches upto 1400 metres. These are parts of Aravali ranges, which run parallel to each other from northeast to southwest. The remaining parts of the Topo Sheet is a lowland, whose average height is about 100 metres.

DRAINAGE PATTERN:

In the hilly regions, especially around Abu, the radial drainage pattern is common, while in the lowlands areas, the streams form a typical dendritic pattern.

The main stream originating from the hilly areas, north of Abu, is the Sipu Nadi, which flows in the southwest direction. Many tributary streams join the Sipu Nadi on its left and right banks. The main tributary streams are Sukli Nadi, Undwala and Dior Nadi on the right bank. On the left bank, the main tributary streams are Devengan Nadi, Gogua Nadi and the Sukli Nadi.

Most of the streams in this region are seasonal and depend on the rainy season for water flow. There are no natural lakes, except two artificial lakes (Nakki Talao and Alwar Talao) in Abu.

CLIMATE AND NATURAL VEGETATION:

The region experiences three main seasons, i.e., summer, monsoon and winter seasons. The summer season is very hot and dry. The day temperature can reach upto 45 °C. The rainfall is mostly in July, August and September. It varies between 50 cm and 100 cm.

ECONOMIC ACTIVITIES:

In this region, a large area is under farming. Thus, farming and animal rearing are the main occupations of the people. There are no permanent sources of irrigation except a few wells and tanks. Some people work in the forests. Abu is an important city, which is the main administration, tourist and educational centre.

SETTLEMENTS AND TRANSPORTATION:

In the lowland areas, small towns and scattered villages are found. The region has few metalled roads. Abu city is well connected by two main roads – the Abu road and the Oriya road. There are no rail routes. Vehicles can ply on some tracks during the dry season. Anadra is also an important settlement.

REFERENCES TO ABU

1. Goagaon
11. Bundi Cottage
2. Bikaner House
12. Jaisalmer House
3. Palampur House
13. Youth Hostel (Girls)
4. Rajputana club
14. Public Library
5. Num Rocks
15. Trevor Oval
6. Municipal Office
16. Youth Hostel (Boys)
7. Gora Chhapra
17. Kesar Bhawan
8. Kala Chhapra
18. Machgaon
9. Kumharwada
19. Sarup Bhawan
10. Toad Rock
20. Bharatpur House

I. Study the extract of the Survey of India Topographical Sheet (Educational Sheet with UTM Grid) No. G43S10, (given on the facing page) extending from **Eastings** 48 to 55 and **Northings** 30 to 39. Now answer the following questions.

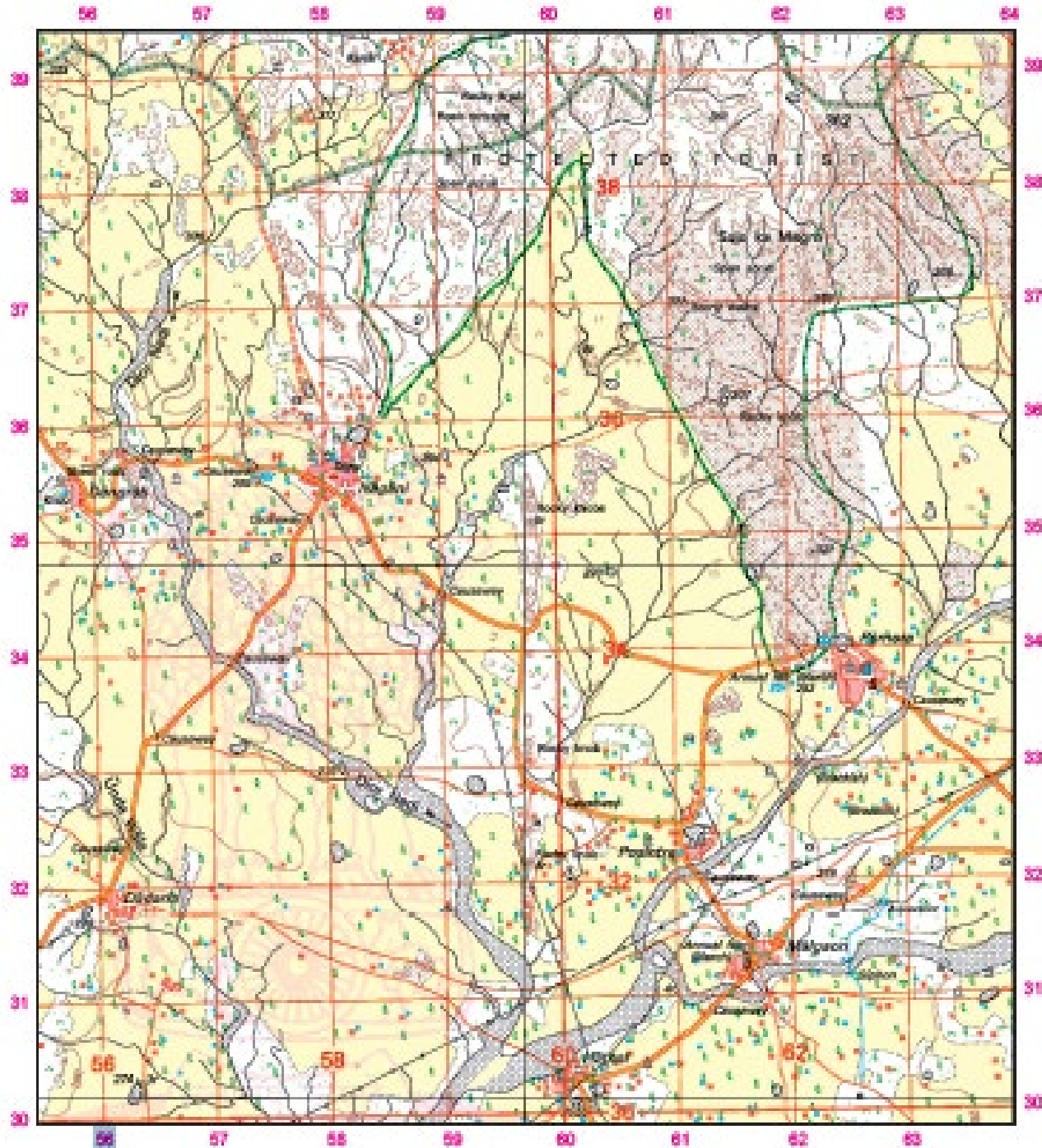
1. Find out the four-figure grid reference for each of the following:

- Village Bhamra
- Dhad Talao
- Surveyed tree in the north
- Village Jolpur in the south

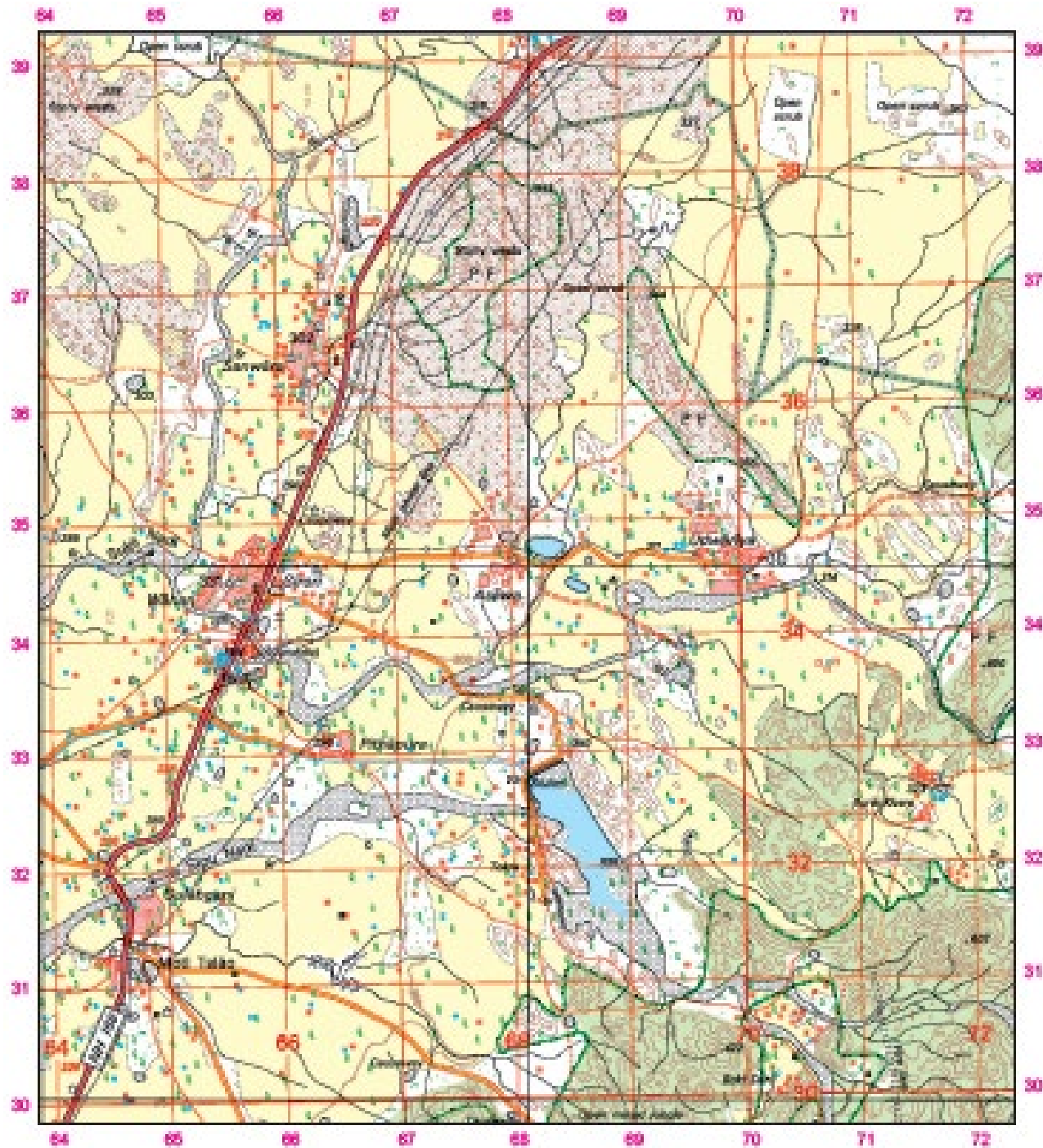
Extract of the Survey of India
Topo Sheet no. G43S10
(**Eastings** 48 to 55 and
Northings 30 to 39)



Extract of the Survey of India Topo Sheet no. G43S10 (Eastingings 56 to 64 and Northings 30 to 39)



Extract of the Survey of India Topo Sheet no. G43S10 (Eastingings 64 to 72 and Northings 30 to 39)



THANK YOU