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3 (Sem-5/CBCS) GGY HC 2

2022

GEOGRAPHY

(Honours)

Paper : GGY-HC- 5026

(Field Techniques in Geography)

Full Marks : 60

Time : Three hours

The figures in the margin indicate full marks for the questions.

1. Answer **any seven** of the following questions very objectively : $1 \times 7 = 7$
 - (a) What is the dominant land use category of a town ?
 - (b) Mention *one* common cause of flash flood and heat island formation in a city.
 - (c) Which instrument is used for collection of demographic and socio-economic data ?
 - (d) Which geomorphic feature is formed on the bank of a river opposite to the bank which experiences erosion ?

Contd.

- (e) Mention the name of an instrument which is used for updation of road networks of an urban area.
- (f) What is the basic use of dumpy Level?
- (g) If the whole circle bearing of a line is 135° , what will be its Reduced Bearing?
- (h) What is the equivalent area coverage of 1 hectare in square meter?
- (i) What is the full form of GPS?
- (j) What is the use of plumb bob in surveying?
- (k) What is the total angle of a polygon with five sides?
- (l) What is PRA?
2. Answers **any four** from the following questions very briefly : $2 \times 4 = 8$
- (a) What is transect chart?
- (b) What is the difference between a large sample and a small sample?
- (c) Distinguish between fore bearing and back bearing in Prismatic compass survey.
- (d) If a map with scale 1 cm to 25 km is reduced to one-fourth, what would be the scale of the reduced map both in statement and RF? $1+1=2$

- (e) What is SWOT analysis ?
- (f) Which type of profile will you construct for studying river bank erosion ?
- (g) What would be the type of soil if its pH value is below 7 and above 7 ?
- (h) What is meant by average family size ?

3. Answer **any three** of the following questions in brief : 5×3=15

- (a) Draw a sketch-map of rural landscape of a village.
- (b) Distinguish between village and town with respect to morphological characteristics.
- (c) Compare the rural and urban environment problems.
- (d) Throw light on acquisition of physical geographic data of an area.
- (e) What is meant by field study report ? Describe its structure with reference to a particular field study. 2+3=5
- (f) Describe the land-use and socio-economic characteristics of a rural-urban fringe.
- (g) Describe how will you carry out market survey with respect to its buyers and sellers. .

(h) Highlight the need of photography in field-based geographical studies.

4. Answer the following questions :

(any three)

10×3=30

(a) Discuss the nature of field study in human geography.

(b) Prepare a plan for conducting land use change study in a village with necessary illustrations.

(c) Discuss the need of field studies in geography.

(d) Prepare a household survey schedule-cum-questionnaire to study the landholding pattern and associated socio-economic condition in a village.

(e) What is traverse survey ? Describe the procedure of conducting closed traverse survey by using Prismatic compass. 2+8=10

(f) Explain the procedure for preparing a contour map of an area with the help of GPS.

(g) What is focus group interview and how it is conducted ? 2+8=10

(h) What is a wetland ? Discuss with illustrations how will you study a wetland in a rural area. 2+8=10