

2015

GEOGRAPHY

(Major)

Paper : 5.3

(Cartographic and Quantitative Methods)

Full Marks : 60

Time : 3 hours

The figures in the margin indicate full marks for the questions

1. Answer the following questions : 1×7=7
- (a) What is the latitude of the tropic of Capricorn?
 - (b) Which is the standard parallel for a cylindrical projection?
 - (c) What is the whole circle bearing of S25°W?
 - (d) Write the alternative name of second quartile.

- (e) What is the latitudinal and longitudinal extent of a toposheet with scale 1 : 25000?
- (f) If the values of mean and standard deviation for a data set are 30 cm and 3 cm, what will be the value of coefficient of variation?
- (g) What is coefficient of determination in correlation analysis?

2. Answer the following questions in brief : $2 \times 4 = 8$

- (a) Define surveying.
- (b) Distinguish between parallel and latitude.
- (c) Mention two characteristics of a map.
- (d) Mention two merits of median as a measure of central tendency.

3. Answer any *three* of the following questions :

$5 \times 3 = 15$

- (a) Define thematic map and give its classification with examples. $2 + 3 = 5$
- (b) Briefly describe the procedure of plane table surveying using intersection method. 5

(c) What is conical map projection? Briefly discuss its basic principles, properties and utilities. 1+4=5

(d) What do you mean by sample and sampling? Mention the need of sampling in geographical study with examples. 2+3=5

(e) What is dispersion? Explain its need with the help of examples. 1+4=5

4. Define cartography and highlight the differences between traditional cartography and modern cartography. 2+8=10

Or

With necessary illustrations, describe the principles and procedure of traverse surveying using prismatic compass. 10

5. Write an account of choice of map projection with respect to properties, uses and areas of concern. 10

Or

What is zenithal map projection? Mention its basic principles and present the systematic scheme of its classification. 2+8=10

6. What is 'Quantification in Geography'?
Discuss its importance in geographical studies. 3+7=10

Or

What is meant by correlation and regression?
Explain with examples, the applications of regression analysis in geographical study. 2+8=10
