

**University of Kerala**

**Ph.D. (Geology) Entrance Examination, Dec.2016**

Time: Three Hours

Max. Marks: 100

**PART A Research Methodology**

**I. Write short notes on ANY TEN of the following:**

1. Reasons for sampling of data
2. Measures of dispersion
3. Null hypothesis
4. Binary and ternary diagrams
5. Systematic and random errors
6. Use of internet for research
7. Concept and variable
8. Primary and secondary references
9. Importance of literature review in research
10. Sources of data in geological research
11. Categories of data
12. Structure of a report
13. Selection of a research problem
14. Use of photographs and figures in geological reports
15. Role of statistics in research

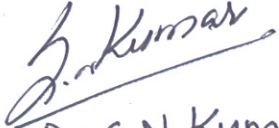
(10x5=50 marks)

**PART B GEOLOGY**

**II. Write short notes on ANY TEN of the following:**

1. Ordering of streams
2. DEM
3. Chemical composition of the crust of the Earth
4. Pyroxene group of minerals
5. Reasons for mass extinction in earth history
6. Structural controls of ore localization
7. Beach placers of Kerala
8. Shale Gas
9. Effects of fluoride contamination in groundwater
10. Shear Zones
11. Mineral composition of Meteorites
12. Foraminifers as ecological indicators
13. Southern Granulite Terrain
14. Significance of igneous textures in petrogenetic studies
15. Optical properties of feldspars

(10x5=50 marks)

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Dr. S. N. Kumar  
Chairman, P. G. (Geology) Board.