

Ph. D. GEOLOGY**(PHDGY)****Term-End Examination****December, 2019****RGY-101 : RESEARCH METHODOLOGY***Time : 3 Hours**Maximum Marks : 100*

Note : Answer any five questions. All questions carry equal marks.

1. What is geological research ? Discuss the recent trends and emerging areas of geological research. 20
2. Briefly describe the stages involved in writing a research paper. 20
3. What is scientific literature ? Elaborate on the methods of scientific literature collection. 20
4. Explain the peer-review process and impact factor of journals. Mention the name of any ten peer reviewed journals in geology. 20

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5. What is a doctoral thesis ? Explain the structure and contents you would consider while in writing your doctoral thesis. 20
6. Discuss code of scientific ethics for research. Add a note on the software available for checking the originality of a research. 20
7. Write short notes on any *two* of the following :
 $2 \times 10 = 20$
- (a) Theory in research
 - (b) Types of research
 - (c) Research design
 - (d) Research plan
8. Write short notes on any *two* of the following :
 $2 \times 10 = 20$
- (a) Scientific Literature review
 - (b) Application of Computer in research
 - (c) Science Citation Index (SCI)
 - (d) Data interpretation.