

Your Roll Number: P2109.....

DEPARTMENT OF MATHEMATICS, UNIVERSITY OF DELHI
M.Phil/Ph.D Course Work Examination, 11th July 2022

MATH20-R01:RESEARCH METHODOLOGY

Time: 2 hours

Maximum Marks: 35

Instructions: • Attempt any Five questions. • Each question carries Seven marks.

- (1) Name four Mathematicians and explain their contribution to the subject of Mathematics due to which Mathematics developed in India and in the world. [2+5 Marks]
- (2) With the help of examples, distinguish between research topic and a research problem. Choose a research problem in your area of research and discuss its objectives. [4+3 Marks]
- (3) Discuss the duties of student and supervisor in the scientific research. Describe the method of publishing a research paper. [4+3 Marks]
- (4) Discuss different funding agencies in India and in the world which provide financial grants for scientific research in Mathematics. Write a research proposal in Mathematics for getting major grant from the DST, Govt. of India. [3+4 Marks]
- (5) Distinguish between oral and poster presentations. Select one paper of your interest and describe how do you present it in oral and poster format. [2+5 Marks]
- (6) Write the LaTeX type set for the title, author affiliations, abstract, introduction and references. What is built-in function in MATLAB? write its syntax? write the syntax for different built-in functions in MATLAB. [4+3 Marks]

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