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**CLUSTER INNOVATION CENTRE**

(UNIVERSITY OF DELHI)

M.Sc. (Mathematics Education)

A Joint Degree under the Meta University Concept by  
University of Delhi & Jamia Millia Islamia



## **EXPLORING THE EFFECTIVENESS OF ARTIFICIAL INTELLIGENCE IN PREPARING ALGEBRA ASSESSMENT TEST FOR GRADE 6 STUDENTS**

*(A research dissertation submitted at Cluster Innovation Centre, University of Delhi )*

### **Abstract**

*This study explores the effectiveness of using artificial intelligence (AI) in preparing algebra assessment tests. With assessment being such an important part of the teaching and learning process, the research will investigate the advantages, disadvantages, and implications of AI in building educational tools. It highlights the need for innovative approaches to assessment and explores the possibilities of AI in generating customized worksheets that are aligned with curriculum standards and learners' needs. An experimental research design was used to collect data. Test questionnaires and feedback forms were distributed to students of Delhi Govt School and teachers respectively, to acquire quantitative data on their perceptions of AI-generated assessment tests. The data provided information about the effectiveness of AI-generated worksheets in terms of subject coverage, question diversity, and assessment of student knowledge. According to the findings, a significant percentage of teachers recognize the benefits of AI-generated assessment tools, such as improved topic coverage, improved assessment of students' knowledge, and a better understanding of ideas. Concerns have been raised, however, about the repetition of AI-generated questions and the necessity for teachers to assure appropriate outcomes. The study emphasizes the significance of continuous professional development training in order to provide teachers with the information and skills needed to properly use AI in educational assessments.*

by

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