

B.Ed. (I Semester) Examination
PEDAGOGY OF MATHEMATICS
Paper IV (a) (i)

Time : 3 Hours]

[Max. Marks : 70

Part - A (Marks: $5 \times 4 = 20$)

*Answer any **five** questions in about **one** page each
from the following **eight** questions.*

*Each question carries **4** marks.*

1. Discuss the following:
(a) Scope of Mathematics
(b) Meaning of Mathematics
2. What are the difficulties in using mathematics? What measures you take to overcome it?
3. How do you explore mathematical language from children's experience?
4. How do you appreciate the dialogue among peer group?
5. Write aims of learning mathematics.
6. How do you relate mathematics education to natural and social environment?
7. Describe the features of well-developed learning objectives.
8. Discuss about Pedagogic Shift in Assessment.

Part - B (Marks: $5 \times 10 = 50$)

*Answer any **five** essay questions in about **three** pages each from
the following **eight** questions. Each question carries **10** marks.*

9. Explain the concept of unsolved problems in mathematics. Why the knowledge of unsolved problems in mathematics is essential to maths teacher?
10. Discuss the contributions of (a) Pythagoras (b) Aryabhatta
11. Discuss development of problems solving skills among students.
12. Discuss about Anderson and Karthwohl's Taxonomy.
13. What do you mean by academic standards? Explain academic standards.
14. What do you mean by democratizing mathematics learning? How do you promote it in your classroom?
15. Discuss Pedagogical Shift in
(a) Mathematics Curriculum (b) Planning Teaching-Learning.
16. Explain the meaning, concept and nature of content-cum-methodology.