



Avinashilingam Institute for Home Science and Higher Education for Women
Deemed to be University Estd. u/s 3 of UGC Act 1956, Category A by MHRD [now MoE]
Re-accredited with an 'A++' Grade by NAAC CGPA 3.65/4, Category I by UGC
Coimbatore - 641 043, Tamil Nadu, India

Continuous Internal Assessment Test I – August 2025
I Semester

Class: I B.Ed / I B.Ed Spl.Ed.

Max. Marks: 60

Time: 2 Hrs

23BEDM11/23BDSM11- School Subject I- Introduction to Mathematics Education

Course Outcomes

- CO1 gain knowledge on basic concepts of Mathematics
- CO2 identify that Mathematics is related to other subjects
- CO3 formulate objectives for teaching and learning Mathematics and use Blooms Taxonomy for evaluation
- CO4 familiarize with the development of Mathematics and appreciate the contributions of Mathematicians
- CO5 demonstrate the qualities and competencies required for a Mathematics teacher

PART – A

Choose the correct answer

6 x 1 = 6

CO1K2

1. Mathematical language
a. Expresses ideas using emotions
b. uses vague and subjective words
c. Communicates ideas through symbols, formulae and structures
d. Uses grammar and vocabulary
2. "Mathematics is a way to settle in the mind a habit of reasoning". This statement was said by
a. Bacon b. Locke c. Gauss d. Benjamin Peirce
3. To the student of Physics, the various application of mathematics like Geometry, Algebra and Trigonometry in Physics is an example of correlation of mathematics
a. with other aspects of life b. within the same branch
c. with different branches of maths d. with other subjects
4. The expression and the calculation of the results of the Mendelian Laws is an example of Correlation of mathematics with
a. Biology b. Physics c. Chemistry d. Philosophy
5. The value that is promoted when students follow a fixed routine, develop punctuality and work systematically is
a. Aesthetic values b. Intellectual values
c. Moral values d. Disciplinary values
6. The objectives are
a. General and specific b. Specific, observable & measurable
c. Long and immeasurable d. General and observable

PART – B

Answer ALL questions

3 x 6 = 18

Each answer should not exceed 200 words

7. a. Explain mathematical language and abstractness nature of Mathematics. **CO1K4**
(or)
7. b. Explain the nature of Mathematics with reference to Brevity and logical reasoning. **CO1K4**
8. a. Explain the need and importance of correlation in teaching of Mathematics and mention the types of correlation in Mathematics. **CO2K4**
(or)
8. b. Discuss the correlation of Mathematics with History and Geography. **CO2K4**
9. a. Briefly enumerate the aims of teaching Mathematics at the entire school stage. **CO3K2**
(or)
9. b. Write a note on Disciplinary and Intellectual values of teaching Mathematics. **CO3K3**

PART – C
Answer ALL questions
Answer should not exceed 800 words

3 x 12 = 36

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|-----|----|---|-------|
| 10. | a. | Define Mathematics and explain the scope of Mathematics. | CO1K2 |
| | | (or) | |
| 10. | b. | Critically examine the nature of Mathematics with suitable examples. | CO1K4 |
| 11. | a. | Illustrate with examples the correlation of Mathematics with other branches of mathematics. | CO2K4 |
| | | (or) | |
| 11. | b. | Discuss the correlation of different branches of Mathematics with Physics, Chemistry, Biology, and Engineering with any two examples. | CO2K4 |
| 12. | a. | Explain the objectives of teaching Mathematics at Secondary level. | CO3K2 |
| | | (or) | |
| 12. | b. | Explain how Mathematics contribute to the development of social, moral, international, and aesthetic values in learners. | CO3K4 |

Staff in-charge: Mrs. S. S. Manimozhi and Mrs. S. Andai

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