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Reg. No.....

Name.....

**B.Ed. (CREDIT AND SEMESTER) DEGREE EXAMINATION
DECEMBER 2018**

First Semester

EDU 104.16—UNDERSTANDING THE DISCIPLINE OF MATHEMATICS EDUCATION

(Two Year Course—2018 Admission onwards)

Time : Two Hours

Maximum : 50 Marks

Part A

*Answer all questions.
Each question carries 1 mark.*

1. Write any *two* contributions of Bhaskaracharya.
2. What is meant by Mathematics ?
3. What is the meaning of the word 'Geometry' ?
4. What is the difference between pure and applied mathematics ?
5. Write any *two* objectives of learning mathematics at secondary level.
6. Name any *two* Western Mathematicians.
7. List any *two* disciplinary values of learning mathematics.
8. Give one situation where ICT can be used in teaching mathematics.
9. Mention two roles of mathematics in the social realm.
10. Write *two* characteristics of Mathematics.

(10 × 1 = 10 marks)

Part B

*Answer any five questions.
Each question carries 2 marks.*

11. What is new math movement ?
12. Differentiate aims and objectives of teaching mathematics.
13. Why Algebra is considered as the generalised Arithmetic ?
14. List any *four* practical values of teaching mathematics.
15. List the objectives under affective domain according to Bloom's Taxonomy.
16. How mathematics related to Music.

(5 × 2 = 10 marks)

Part C

*Answer any five questions.
Each question carries 4 marks.*

17. Explain the scope of mathematics in the 21st Century.
18. Write a short note on any *one* Indian Mathematician.
19. Explain the relevance of knowledge of History of Mathematics.
20. Explain the role of induction in the teaching and learning of Mathematics.
21. Briefly explain the tripolar relation in the teaching and learning of Mathematics.
22. Distinguish competence based instruction and competence based evaluation.
23. Discuss Revised Bloom's Taxonomy (RBT) of Educational Objectives.

(5 × 4 = 20 marks)

Part D

*Answer any one question.
The question carries 10 marks.*

24. Discuss the general objectives of teaching mathematics of different stages—Primary, Secondary and Higher Secondary.
25. Briefly explain with suitable example of correlation of mathematics with different subjects.

(1 × 10 = 10 marks)