

F 5901

(Pages : 2)

Reg. No.....

Name.....

**B.Ed. (CREDIT AND SEMESTER) DEGREE EXAMINATION
NOVEMBER 2019**

First Semester

EDU 104.16—UNDERSTANDING THE DISCIPLINE OF MATHEMATICS EDUCATION

(2018 Admissions—Regular/Supplementary)

Time : Two Hours

Maximum : 50 Marks

Part A

Answer all questions.

Each question carries 1 mark.

1. What is meant by Mathematics ?
2. What is the meaning of the word "Algebra" ?
3. Differentiate between Pure and Applied Mathematics.
4. Write any two objectives of teaching Mathematics at primary level.
5. What is New Math Movement ?
6. Cite an example from life to explain the aesthetic value of Mathematics.
7. Name any two western Mathematicians.
8. How Mathematics related to music ?
9. Write two contributions of Brahmagupta.
10. What is the role of symbols in Mathematics ?

(10 × 1 = 10 marks)

Part B

Answer any five questions.

Each question carries 2 marks.

11. Write a short note on cultural values of Mathematics.
12. What is the correlation of Mathematics with Social Science ?
13. What do you mean by Mathematics language ?
14. List any four practical values of teaching Mathematics.
15. Distinguish objective based instruction and objective based evaluation.
16. Write a note on the development of Mathematics from empirical to rational stage.

(5 × 2 = 10 marks)

Turn over

Part C

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

17. Explain the role of Mathematics in the social development.
18. Discuss competence based instructions and competence based evaluation.
19. Explain the tripolar relation of objective, learning experience and evaluation.
20. Write a short note on vocational aims and values of teaching Mathematics.
21. Explain the importance of learning history of Mathematics.
22. Explain induction, intuition and logical nature of Mathematics.
23. Discuss Revised Bloom's Taxonomy.

(5 × 4 = 20 marks)

Part D

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

24. Explain Bloom's Taxonomy of educational objectives at three domains.
25. Discuss the inter and intra disciplinary nature of Mathematics.

(1 × 10 = 10 marks)