220100017A

Reg No : ....

Name : ....

B.Ed DEGREE (REGULAR / SUPPLEMENTARY) EXAMINATIONS, MARCH 2022

First Semester

PEDAGOGIC COURSE - EDU104.16 - UNDERSTANDING THE DISCIPLINE OF MATHEMATICS EDUCATION

2018 Admission Onwards

9818ACF5

Time: 2 Hours

Max. Marks : 50

Part A

Answer all questions

Each question carries 1 mark.

1. List out any two contributions of Brahmagupta.

2. What is New Math Movement?

3. Mathematics and Logic are related. Justify.

4. List any two uses of Mathematics in daily life.

5. Mathematics and arts are correlated. Give any one example to prove this.

6. Write any one mathematical concept that can be useful for learning music.

7. Write any two art forms where the aesthetic values of Mathemaics can be seen.

8. State any two general objectives of teaching Mathematics at secondary stage.

9. Define aim.

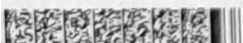10. List any two specifications of objective 'synthesis'.

(10×1 = 10)

Part B

Answer any five questions in about half a page

Each question carries 2 marks.

11. Write a short note on Mathematical induction.

12. Give two examples for correlation of Mathematics with Physics.

13. List any four Utilitarian values of teaching Mathematics.

14. Cite four vocations in which one can observe the vocational values of learning Mathematics.

Turn Over

List any four general objectives of teaching Mathematics at Higher Secondary stage.

. How can you conduct competency based instruction? Illustrate with one example.

<div align="right">(5×2 = 10)</div>

Part C

*Answer any **five** questions in about **one or two pages***

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

17. Briefly explain the historical background of the development of Notation System.

18. Mathematics is the science of numbers. Explain.

19. Write a short note on relationship between Mathematics and Social Science.

20. Explain different situations in language where we use mathematics.

21. Discuss the cultural values of learning Mathematics.

22. Write the general objectives of teaching Mathematics at the Primary stage. Briefly evaluate if these objectives are satisfied in the present curriculum.

23. Give a brief account on revised taxonomy of educational objectives.

<div align="right">(5×4 = 20)</div>

Part D

*Answer any **one** question in about **three or four pages.***

*Each question carries **10** marks.*

24. Comment on correlation among different topics and branches of Mathematics.

25. Explain the disciplinary values of learning Mathematics. Give situations from daily life where these values of Mathematics can be seen.

<div align="right">(1×10 = 10)</div>