Reg. No. : ....

Name : ....

First Semester B.Ed. Degree Examination, April 2023

EDU 04.7 : THEORETICAL BASE OF MATHEMATICS EDUCATION

(2019 Admission Onwards)

Time : 2 Hours   Max. Marks : 50

SECTION – A

I.   Select the most appropriate option from those given in the brackets.

1.   'Discourse on Method' is a philosophical work by
      ((a) Russel, (b) John Napier (c) George Cantor (d) Rene Descartes)

2.   Measurable observable behavioural Changes are termed as
      ((a) Outcomes, (b) Specifications (c) Product (d) Comprehension)

3.   If one has acquired aesthetic value through learning Mathematics, he will be good at,
      ((a) Using Mathematics in his job, (b) Calculation, (c) Enjoying drawing and painting (d) Family budgeting)

4.   Emphasis is given of self-discovery in
      ((a) Inductive Method, (b) Heuristic approach, (c) Analytic Method, (d) Laboratory method)

5.   Which among the following is at the highest level in Digital Taxonomy?
      ((a) Blogging, (b) Copying, (c) Tagging, (d) Sharing)

(5 × 1 = 5 Marks)

P.T.O.

II. Write the answers in a sentence/word. Each carries **1** mark.

6. Define postulate.

7. What you mean by Mathematical induction?

8. List any two specifications of the knowledge objective.

9. Write any two qualities of a good Mathematics teacher.

10. RBT was developed by

(5 × 1 = 5 Marks)

SECTION – B

Answer **all** questions in a paragraph.

11. What are the special characteristics of Mathematics?

12. Differentiate between pure and applied Mathematics.

13. Discuss the benefits of assignments as an individualized instruction technique.

14. Write a short note on the significance of drill work in Mathematics.

15. What are the stages of learning Mathematics?

(5 × 2 = 10 Marks)

SECTION – C

Answer any **four** questions in **1½** page.

16. Give a brief account of the phases of teaching.

17. What are the major roles of a teacher in the classroom with reference to current scenario? Explain.

18. How far application of technology is helpful in Mathematics learning?

19. Briefly explain the values of Teaching Mathematics.

20. Mathematics influences the real life of mankind in all aspects. Elucidate.

21. Discuss the major contributions of Bhaskaracharya to mathematics.

(4 × 5 = 20 Marks)

SECTION – D

Answer any **one** question in **3** pages.

22. Explain Blooms Taxonomy of Educational Objectives.

23. Describe Analytic – Synthetic methods of Teaching with examples.

(1 × 10 = 10 Marks)

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