

(Pages : 3)

H – 2736

Reg. No. :

Name :

First Semester B.Ed. Degree Examination, November 2019
EDU 04.7 : THEORETICAL BASE OF MATHEMATICS EDUCATION
(2019 Admission)

Time : 2 Hours

Max. Marks : 50

PART – A

Select the most appropriate option from those given in the brackets for questions: 1 to 5

1. Which among the following is an example of Applied Mathematics
 - (a) Geometry
 - (b) Operation Research
 - (c) Trigonometry
 - (d) Algebra
2. The book *Elements* was written by
 - (a) Russel
 - (b) John Napier
 - (c) George Cantor
 - (d) Euclid
3. Which one of the following is not a task in pre-active phase of teaching?
 - (a) Designing the learning experiences
 - (b) Setting Learning Objectives
 - (c) Evaluating the learning experiences
 - (d) Doing pedagogic analysis of the content

P.T.O.



4. Particular to General is the way we choose in
- (a) Inductive Method
 - (b) Deductive Method
 - (c) Analytic Method
 - (d) Synthetic Method
5. Individualized Instruction technique aimed to empower reading, writing and referencing skill of students
- (a) Homogenous grouping
 - (b) Assignments
 - (c) Dalton Plan
 - (d) Drill work

(5 × 1 = 5 Marks)

PART – B

Write the answers in a sentence/ word (questions 5 – 10). Each question carries 1 Mark.

6. Origin of the word algebra is
7. 'Heurisco' means
8. What is specification?
9. Affective domain is also called as
10. Write any one demerit of drill work.

(5 × 1 = 5 Marks)



PART – C

Answer all questions in a paragraph.

11. Discuss the benefits of Mental Math.
12. How will you differentiate Inductive and deductive reasoning?
13. Physics can't exist without mathematics. Elucidate.
14. Write a short note on the concept of classroom without walls.
15. What are the features of good questions?

(5 × 2 = 10 Marks)

PART – D

Answer any four questions in 1½ page

16. Explain the major events in the development of mathematics.
17. Discuss the major contributions of Ramanuja to mathematics.
18. How far laboratory method is helpful in mathematics learning?
19. Give a brief account of the phases of teaching.
20. Describe the qualities of a good mathematics teacher.
21. What are the suggestions of KCF 2007 regarding the learning of mathematics?

(4 × 5 = 20 Marks)

PART – E

Answer any one question in 3 pages.

22. Explain the values of teaching mathematics.
23. Describe the roles of a constructivist teacher in the changing scenario.

(1 × 10 = 10 Marks)

