

C 3406

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Name.....

Reg. No.....

**SECOND SEMESTER B.Ed. DEGREE (REGULAR/SUPPLEMENTARY)  
EXAMINATION, APRIL 2021**

B.Ed.

EDU 09.10—PEDAGOGIC PRACTICES IN MATHEMATICS

(2017 Syllabus)

Time : Three Hours

Maximum : 80 Marks

**Part A**

*Answer all questions.  
Each question carries 2 marks.*

1. Enumerate the steps in pedagogical analysis.
2. List the objectives in teaching Arithmetic Sequences of class X.
3. Write any two importance of preparing year plan.
4. What are the stages of child's cognitive development according to Bruner ?
5. What are the elements of models of teaching ?
6. Write two merits of work books in Mathematics.
7. What do you mean by continuous and comprehensive evaluation ?
8. Write two prerequisites to learn the topic "Tangents" ?
9. What is remedial teaching ?
10. What are graphic organizers ?

(10 × 2 = 20 marks)

**Part B**

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

11. How can you introduce the topic "Trigonometry" ?
12. Discuss various families of models of teaching.
13. Explain the importance of unit plan.
14. What are the educational implications of the theory of Piaget in Mathematics teaching ?
15. What is content analysis ? Analyse the content "Circles" of Standard IX.
16. Explain various phases involved in Inquiry Training Model.

Turn over

17. What are the characteristics of a good mathematics text book ?
18. Explain the importance of mathematics lab by taking an example from Standard VIII.
19. Discuss the importance of improvised aids in Mathematics.
20. What are the steps involved in the construction of a diagnostic test ?
21. Briefly discuss various types of questions that can be useful for the preparation of an achievement test.
22. What are the common errors a student commits while solving problems relating to "Equations" ?  
Give remedial measures.

(10 × 4 = 40 marks)

### Part C

*Answer any two questions.*

*Each question carries 10 marks.*

23. Explain Gagne's theory of learning, taking suitable example from Mathematics. Write the educational implications.
24. Select any topic from secondary school mathematics and prepare a lesson plan based on constructivist format.
25. Explain the different stages of planning instruction.

(2 × 10 = 20 marks)