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(Pages : 2)

Name.....

Reg. No.....

**SECOND SEMESTER B.Ed. DEGREE EXAMINATION, APRIL 2022**

B.Ed.

**EDU 09.10—PEDAGOGIC PRACTICES IN MATHEMATICS**

(2017 Scheme)

Time : Three Hours

Maximum : 80 Marks

**Part A**

*Answer all questions.*

*Each question carries 2 marks.*

1. Write the importance of doing pedagogical analysis.
2. Suggest any *two* strategies for teaching the topic "Statistics".
3. Write two evaluation strategies for evaluating the topic 'volume of a square prism'.
4. List two curricular objectives for teaching the topic "Trigonometry".
5. Give any *two* merits of writing lesson plan.
6. Write any *two* features of constructivism.
7. What is Assimilation ?
8. Write any *two* characteristics of models of teaching.
9. What is a graphic organizer ?
10. What is remedial teaching ?

(10 × 2 = 20 marks)

**Part B**

*Answer any ten questions.*

*Each question carries 4 marks.*

11. Explain the steps in pedagogical analysis.
12. Analyse the content "Arithmetic sequence" of standard X.
13. Briefly explain the stages of planning instruction.

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206820

14. Discuss the educational implications of Gagne's theory of learning in mathematics teaching ?
15. Write a short note on different families of models of teaching.
16. Explain Inductive Thinking Model.
17. Write the importance of handbooks in mathematics teaching.
18. What are improvised aids ? Give an example for an improvised aid suitable for teaching the topic "pyramid".
19. How can you organize a mathematics lab in your school ?
20. What are the measures you can take for effective functioning of mathematics library ?
21. Briefly explain the steps in the construction of an achievement test.
22. How will you teach the students "The perpendicular from the center of a circle to a chord bisect the chord" ?

(10 × 4 = 40 marks)

### Part C

*Answer any two questions.*

*Each question carries 10 marks.*

23. Select any topic from secondary school mathematics textbook and prepare a lesson plan based on Constructivist format.
24. Explain various formal and informal tools and techniques for evaluating mathematics learning.
25. What are models of teaching ? What are the fundamental elements of a teaching model ? Explain various phases involved in Concept Attainment Model.

(2 × 10 = 20 marks)