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Name.....

Reg. No.....

SECOND SEMESTER B.Ed. DEGREE EXAMINATION, APRIL 2024

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. What do you mean by Information processing family of models ?
2. What are the prerequisites needed to teach the topic 'real numbers' ?
3. What are the characteristics of behaviourism ?
4. What are the purposes of content analysis ?
5. Write any *two* methods to solve simultaneous equations.
6. Write any *four* uses of rating scale ?
7. What are the advantages of unit planning ?
8. Write any *four* types of books that can be kept in a Mathematics library.
9. Define 'models of teaching'.
10. Write any *two* uses of application cards.

(10 × 2 = 20 marks)

Part B

Answer any ten questions.

Each question carries 4 marks.

11. Describe the syntax of concept attainment model.
12. Differentiate achievement test and diagnostic test.
13. Draw the slides of a power point presentation(at least 4 slides) for teachings lesson in geometry.

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14. Select any topic from standard VIII and do its pedagogical analysis.
15. Briefly explain Inductive thinking model of teaching. List out and explain its phases.
16. Describe the different types of planning.
17. What is meant by pedagogical analysis ?
18. What are the differences between achievement test and diagnostic test ?
19. Write any four examples of trapezium from daily life.
20. Write all the curricular objectives of the topic 'construction of quadrilaterals' of standard VIII.
21. How will you introduce the topic 'median' to your students ?
22. Differentiate constructivist and behaviourist lesson plan formats.

(10 × 4 = 40 marks)

Part C

*Answer any two questions.
Each question carries 10 marks.*

23. Prepare a lesson plan using Inductive thinking model of teaching in Mathematics.
24. What are the steps involved in the construction of an achievement test.
25. Explain in detail Piaget's theory of cognitive development. What are the implications of this theory in Mathematics teaching ?

(2 × 10 = 20 marks)