C 82049

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SECOND SEMESTER B.Ed. DEGREE EXAMINATION, JUNE 2020

B.Ed

EDU 09.10—PEDAGOGIC PRACTICES IN MATHEMATICS

(2017 Admissions)

Time : Three Hours

Maximum : 80 Marks

Part A

Answer all questions.
Each question carries 2 marks.

1. What are the advantages of teacher's handbook ?

2. What do you mean by information processing family of models ?

3. What are the pre-requisites needed to teach real numbers ?

4. What are the advantages of year planning ?

5. Write any two follow up activities of 'area of a circle'.

6. Write any four examples of linear equations from real life.

7. What is pedagogical analysis ?

8. What are the characteristics of behaviourism ?

9. Write any four characteristics of a good teaching aid.

10. What are the characteristics of workbooks ?

(10 × 2 = 20 marks)

Part B

Answer any ten questions.
Each question carries 4 marks.

11. What are the applications of ratios in life situations ?

12. Explain the need and importance of Mathematics library.

13. How will you teach the 'volume of any prism' ?

14. What are the characteristics of a good textbook in Mathematics ?

15. What are the characteristics of good observation ?

16. What are the implications of Piaget's theory of cognitive development in Mathematics teaching ?

Turn over

17. What are the precautions to be taken while preparing lesson plan ?

18. Differentiate between unit plan and lesson plan ?

19. Write a suitable learning activity to teach the 'curved surface area of a cylinder'.

20. What are the different functions of an achievement test ?

21. How will you introduce 'average' to the students ?

22. Explain content analysis by taking a suitable topic from the Mathematics textbook of Std. IX.

(10 × 4 = 40 marks)

Part C

Answer any two questions.
Each question carries 10 marks.

23. Select a topic from secondary school Mathematics textbook and prepare a lesson plan based on Inductive Thinking Model.

24. What are the different steps involved in the construction of achievement test in Mathematics ?

25. Write a lesson plan based on the topic 'length of an arc of a circle'.

(2 × 10 = 20 marks)