D 43092 (Pages : 2) Name.....

Reg. No.....

SECOND SEMESTER B.Ed. DEGREE EXAMINATION, MAY 2018

Education

Optional Course II—EDU 9.10—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 year planning ?
2. What is an improvised aid ?
3. Point out the roles of teacher in a constructivist classroom ?
4. Write any four types of books that can be kept in a mathematics library.
5. Write any four examples of a 'trapezium' from daily life.
6. What is meant by pedagogical analysis ?
7. What are the advantages of reference books in mathematics ?
8. What do you mean by 'models of teaching' ?
9. Write any four uses of a 'rating scale'.
10. What are the limitations of Piaget's theory in mathematics teaching ?

(10 × 2 = 20 marks)

Part B

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

11. How does the content analysis help a mathematics teacher to teach effectively ?
12. What are the formal tools and techniques for evaluating mathematics learning ?
13. What are the uses of a diagnostic test ?
14. What are the principles to be kept in mind while selecting a teaching aid for the mathematics class ?
15. What are the characteristics of a good textbook in mathematics ?

Turn over

16. What are the implications of Bruner's theory in mathematics teaching ?
17. What is a concept ? What are the elements of a concept ?
18. How the constructivist lesson plan differs from a behaviorist lesson plan ?
19. Write all the curricular objectives of the topic 'construction of quadrilaterals' of std. VIII.
20. How will you introduce the concept of 'ratio' to the students ?
21. Write a suitable learning activity to teach the 'area of a parallelogram'.
22. How will you use charts in a mathematics class effectively ?

(10 × 4 = 40 marks)

Part C

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

23. Prepare a lesson plan using Inquiry Training Model by choosing a suitable topic from std. IX Mathematics textbook.
24. What are the importances of a mathematics lab ? How will you organize a mathematics lab ?
25. Prepare a lesson plan using Inductive Thinking Model by choosing a suitable topic from Std. VIII Mathematics textbook.

(2 × 10 = 20 marks)