C 23692

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Name..................................

Reg. No...........................

SECOND SEMESTER B.Ed. DEGREE EXAMINATION, JUNE 2017

Education

EDU 9.10—PEDAGOGIC PRACTICES IN MATHEMATICS

(2015 Admissions)

Time : Three Hours

Maximum : 80 Marks

Part I

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

1. Briefly explain the components of the "skill of black board writing".

2. What is 'reinforcement' ? Mention the different types of reinforcements.

3. Define "models of teaching".

4. Write any *two* informal methods of evaluation of a mathematics class.

5. What is an attribute of a concept ? Give an example.

6. Briefly explain objective based instruction.

7. What is the role of supplementary readers in the teaching of mathematics ?

8. Explain microteaching cycle.

9. What is guided reciprocal peer questioning ?

10. Write any *two* uses of exit cards.

(10 × 2 = 20 marks)

Part II

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

11. Select any *one* topic from Standard IX mathematics and write its Pedagogic Analysis.

12. Describe the syntax of Inquiry Training Model.

13. Prepare a micro teaching lesson plan on the skill of "stimulus variation".

14. Differentiate a rating scale and a check list.

15. Describe the different types of planning.

16. Write the principles to be bear in mind while planning a lesson for secondary school students.

Turn over

17. What is a unit ? What are the characteristics of a good unit ?

18. What are the advantages of improvisation in education ?

19. Draw the slides (minimum 4) for a power point presentation that can be used for teaching a lesson in Geometry.

20. How will you introduced the lesson "are of a parallelogram to secondary school students" ?

21. Select an appropriate teaching aid for a topic from mathematics and explain how will you use it in the classroom.

22. Explain the steps in the preparation of an achievement test.

(10 × 4 = 40 marks)

Part III

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

23. Select a topic from secondary school mathematics and prepare a lesson on behaviourist format.

24. What is the significance of mathematics library in the learning of mathematics ? How will you manage to organise a mathematics library in your school. What steps will you take for the proper functioning of it ?

25. Develop a lesson transcript on any *one* of the topic for your choice from high school mathematics based on inductive thinking model.

(2 × 10 = 20 marks)