C 42602

(Pages : 2)

380505

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

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

SECOND SEMESTER B.Ed. DEGREE EXAMINATION, APRIL 2023

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 is pedagogical analysis ?

2. List the curricular objectives in teaching the topic "similar triangles" in standard IX.

3. What is a year plan ?

4. Define models of teaching ?

5. Write any *two* strategies for teaching the topic "polygons" in standard VIII.

6. Give any *two* merits of handbooks in mathematics ?

7. Write any *two* programmes for teaching mathematics in Edubundu ?

8. What are the prerequisites for learning the topic "New Numbers" in standard IX ?

9. What are the merits of rating scale ?

10. Write any *two* informal strategies for assessing mathematics learning ?

(10 × 2 = 20 marks)

Part B

Answer any ten questions.
Each question carries 4 marks.

11. How can you introduce the topic "Polynomials" ?

12. Explain an activity to teach the topic "volume of a prism" ?

13. Distinguish the features of behaviourism and constructivism.

Turn over

380505

14. Discuss the educational implications of theory of Bruner in Mathematics learning ?

15. Explain the fundamental elements of models of teaching ?

16. What are the merits of using textbooks in mathematics ?

17. Discuss the importance of audiovisual aids in teaching mathematics ?

18. As a mathematics teacher, how will you organize a mathematics lab in your school ?

19. What is the role of mathematics library in learning mathematics ?

20. Analyse the content "Polygons" of standard VIII ?

21. Write all the curricular objectives of the uint "proportion" in standard IX ?

22. What are the steps in the construction of a diagnostic test ?

(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. Discuss the different steps involved in the construction of achievement test in mathematics by taking any unit from secondary school mathematics textbook.

(2 × 10 = 20 marks)