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B.Ed. DEGREE EXAMINATION, APRIL 2020

Fourth Semester

EDU 403.16—PROFESSIONAL DEVELOPMENT OF MATHEMATICS TEACHER

(2018 Admissions—Regular)

Time : Two Hours   Maximum : 50 Marks

Part A

Answer all questions.
Each question carries 1 mark.

1. Write the different level of Mathematical Olympiad.

2. Why research in Mathematics become a need of the hour ?

3. Mention any *two* challenges faced by students with low socio-economic status.

4. Suggest one area of research in Mathematics education.

5. What is the purpose of conducting Mathematics contexts and fairs ?

6. Give the significance of reflective practices in assessment.

7. What do you mean by conceptual competency of a teacher ?

8. List the important professional characteristics of a teacher.

9. What is the need of continuous professional development for teachers ?

10. What is meant by soft skill ?

(10 × 1 = 10 marks)

Part B

Answer any five questions.
Each question carries 2 marks.

11. What are the major functions of a Mathematics Club ?

12. How does in-service programmes help teachers ?

13. Suggest a game and point out its importance in Mathematics education.

14. Briefly describe a reflective practice helpful in Mathematics teaching ?

Turn over

15. Write the characteristics of culturally deprived students. (Any *four*).

16. Mention the different roles of a teacher.

(5 × 2 = 10 marks)

Part C

Answer any five questions.
Each question carries 4 marks.

17. What is the role of reflection in solving the challenges in Mathematics teaching ?

18. Discuss the role of ICT in the teaching learning process ?

19. Explain e-twinning.

20. What would be the vision and mission of a Mathematics teacher ?

21. How will you organize a Mathematics Club in your school ?

22. Describe the cycle of reflective teaching.

23. Illustrate the educational values of field trip.

(5 × 4 = 20 marks)

Part D

Answer any one question.
The question carries 10 marks.

24. Explain the socio-cultural issues in Mathematics education. Give suggestions to overcome these issues.

25. Explain in detail various competencies of a Mathematics Teacher.

(1 × 10 = 10 marks)