B.Ed DEGREE REGULAR/SUPPLEMENTARY EXAMINATIONS, DECEMBER 2021

Second Semester

Pedagogic Course - EDU204.16 - PEDAGOGICAL DIMENSIONS OF MATHEMATICS

2018 Admission Onwards

C6B395BF

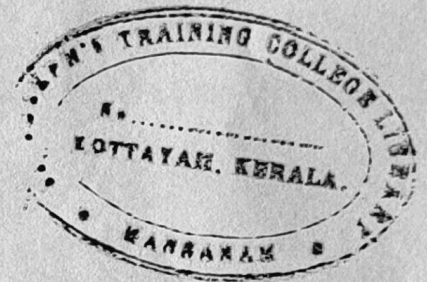Time: 2 Hours   Max. Marks : 50

Part A

Answer all questions

Each question carries 1 mark.

1. Write any two characteristics of a child in the Formal operational stage.

2. What is meant by Enactive stage according to Bruner?

3. What is the meaning of a Lesson Plan?

4. What is the purpose of a Year plan?

5. What do you mean by blue print?

6. Write two demerits of objective type questions.

7. What do you mean by pedagogical content knowledge?

8. Write any two pre-requisites for learning the identity 'Square of difference'.

9. What is the formula to find out the Area of rhombus.

10. Find out the 10th term of an arithmetic sequence with first term 5 and common difference -2.

$(10×1 = 10)$

Part B

*Answer any **five** questions in about **half a page***

*Each question carries **2** marks.*

11. Give a short description of the concept of cognitive constructivism.

12. Write a short note on Experiential learning?

13. How does a unit plan help the teacher?

14. How can a teacher be evaluated?

16. Differentiate 'Angle of elevation' and 'Angle of depression'.

(5×2 =

Part C

*Answer any **five** questions in about **one or two pages***

*Each question carries **4 marks.***

17. As a mathematics teacher, how will you enrich a learner with Logical-Mathematical Intelligence?

18. Explain ZPD according to Vygotsky.

19. Brifly explain the role of a teacher ina Constructivist classroom.

20. Describe the steps in the construction of diagnostic test.

21. A teacher's indepth content-knowledge is a way to link pedagogy with technology - Substantiate.

22. List out the content into terms,facts,concepts,principles etc. in the chapter 'Negative numbers of standard VIII.

23. Explain in detail the different activities you provide to develop the concept of 'Frquency table'

(5×4 = 2

Part D

*Answer any **one** question in about **three or four pages.***

*Each question carries **10** marks.*

24. Give a detailed description of Bruner's theory and its implications in teaching and learning of Mathematics.

25. What do you mean by an achievement test? Explain the steps in the constuction of an achievement test.

(1×10 = 1