B.Ed DEGREE REGULAR/SUPPLEMENTARY EXAMINATIONS, SEPTEMBER 2022

Second Semester

BACHELOR OF EDUCATION

PEDAGOGIC COURSE - EDU204.16 - PEDAGOGICAL DIMENSIONS OF MATHEMATICS

2018 Admission Onwards

7AE22EA2

Time: 2 Hours

Max. Marks : 50

Part A

Answer all questions

Each question carries 1 mark.

1. Write any two mathematical implications in the Formal operational stage.

2. Which learning, according to Gagne succeeds Chain Learning?

3. Write any two purposes of Lesson Planning.

4. What is the purpose of preparation stage in Herbartian approach?

5. Why is the significance of teacher evaluation?

6. What do you mean by student self evaluation?

7. Write any two ways to link technology to pedagogical content knowledge.

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

9. State the principle related to equality of right angled triangles.

10. Write the formula for 'Area of sectors'.

(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 social constructivism.

12. Write any four characteristics of learner with Visual - Spatial Intelligence.

13. What is the role of year plan in an educational programme?

14. What is meant by remedial teaching?

15. How will you predict the nature of the roots of a 'Second degree equation'?

16. List any two principles to be learned earlier to learn the topic 'Volume of cone'.

$$(5 \times 2 = 10)$$

Part C

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

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

17. Explain the stages of Experiential learning.

18. Explain the implications of Vygotsky's social constructivism.

19. Write in detail the steps involved in the construction of Unit Plan.

20. Briefly explain the merits and demerits of short answer type test items.

21. Briefly explain the importance of pedagogic content knowledge.

22. List all the curricular objectives of teaching "Money math" of standard VIII.

23. What are the various activities to develop the concept 'Proportion'.

$$(5 \times 4 = 20)$$

Part D

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

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

24. Prepare a year plan for any standard of your choice.

25. Define teacher evaluation. Describe the criteria for evaluating teaching competency.

$$(1 \times 10 = 10)$$