Reg No   :   ....

Name   :   ....

B.Ed DEGREE REGULAR/SUPPLEMENTARY /MERCY CHANCE EXAMINATIONS, JUNE 2023

Second Semester

BACHELOR OF EDUCATION

PEDAGOGIC COURSE - EDU204.16 - PEDAGOGICAL DIMENSIONS OF MATHEMATICS

2018 Admission Onwards

BA429006

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 Pre operational stage.

2. What is ZPD?

3. What is the purpose of preparing Unit plan?

4. What you mean by Recapitulation in Herbartian approach?

5. Define achievement test.

6. Define diagnostic test.

7. Write down the different ways to link technology to pedagogic content knowledge.

8. Write any two pre-requisites for learning the concept 'Compound interest'.

9. State any one principle related with the 'Equality of triangles'.

10. Point out any situation from real life where we can apply the concept of 'Probability'.

(10×1 = 10)

Part B

Answer any five questions in about half a page

Each question carries 2 marks.

11. Write any four characteristics of learner with Verbal - Linguistic Intelligence.

12. What is the hierarchial order to be followed by a Mathematics teacher according to Gagne, to teach problem solving?

13. How does Reflection helps a teacher in a constructivist classroom?

14. What are the possible ways of evaluating a teacher?

15. What is the general form of a 'First degree' and 'Third degree' polynomial?

16. Write all the concepts to be internalised inorder to learn 'Multiplication of Polynomials'.

(5×2 = 10)

Part C

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

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

17. Give a brief account of social constructivism.

18. What is the role of teacher in the developmental stage of a learner according to Bruner?

19. Explain the important features of a good lesson plan.

20. What are the different types of test items? Explain with suitable examples.

21. What are the duties and responsibilities of a technopedagogue?

22. How will you teach the identity 'Square of difference'?

23. Write all the curricular objectives for teaching 'Tangents'.

(5×4 = 20)

Part D

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

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

24. Give a detailed description of Vygotsky's theory of learning in teaching Mathematics?

25. Analyse the content 'Prisms' of Std. IX and write all its curricular objectives.

(1×10 = 10)