Vasavi College of Education

Term Test – 2: Bed. Second year April, 2021
Course - 18(vii) Pedagogy of Mathematics – Part 2

Duration: 3 Hrs.   Maximum Marks: 80

Part A (Answer any 0ne questions)   2x10=20

1. (a) Critically evaluate various approaches of to Mathematics curriculum construction.

    or

    (b) Discuss the Gagne's eight types of learning and its educational implication.

2. (a) Explain in details the development of problem solving and creativity in mathematics

    or

    (b) What are the Factors influencing the learning of Mathematics?

Part B (Answer any four questions)   8x5=40

3. Describe the Psychological considerations of learning Mathematics with special reference to Piaget's stages of development.

4. Explain the principles to be followed in the selection and organisation of Mathematics Curriculum

5. How will you evaluate Mathematics curriculum?

6. Comparison of CBSE and state Board mathematics.

7. Critically analyze the mathematics curriculum at secondary level with reference to NCF 2005.

8. As a teacher of Mathematics, how will you make use of the textbook in the classroom?

9. How will promote Mathematics exhibition in school at secondary stage.

10. As a teacher of Mathematics how would you cater for individual difference while teaching Mathematics?

11. Briefly discuss the Bruner's discovery learning theory

12. What are the advantages of 'concept learning' in mathematics?

13. What is the relation between the problem and problem posing in mathematics?

14. What is the divergent thinking and creativity in mathematics?

Part C   (Answer all the questions)   10x2=20

15. What are the differences of topical and spiral approaches of Mathematics curriculum?

16. What are the advantages of psychological approach of organization of content in mathematics?

17. Write the difference of General Library and Mathematics library.

18. What is the importance of planning for instruction in mathematics?

19. Write any four Computer applications in Teaching and Learning Mathematics

20. Mention the suitable instructional objectives for teaching mathematics

21. Differentiate attitude and aptitude.

22. Bring out the components of pedagogic content knowledge

23. Suggest some activities for Mathematics exhibition.

24. What are the strategies of mathematics problem posing?