

Vasavi College of Education

Unit 1-5 Test – 1: Bed. Second year, May 2021

Course - 18(vii) Pedagogy of Mathematics – Part 2

Duration: 3 Hrs.

Maximum Marks: 80

Part A (Answer any One 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 the need for audio-visual aids in mathematics teaching and Critically comment the statement “ICT” is a tool for effecting teaching in mathematics
or
(b) Explain in detail the importance of computers in teaching and 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. Elaborate: Comparison of CBSE and state Board mathematics.
7. Critically analyze the mathematics curriculum at secondary level with reference to NCF 2005.

8. Describe the recent trends in curriculum construction in mathematics
9. How would you identify learners' strength and weakness in learning mathematics?
10. Explain in detail the planning and designing instruction in mathematics with illustration.
11. Briefly discuss the Bruner's discovery learning theory.
12. How will you organize a mathematics club in rural school?
13. Explain the use of community resources for mathematics learning
14. Explain Mathematics Library and how will organize in your school.

Part C (Answer all the questions)

10x2=20

15. state any two axiom.
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. Write the importance of teaching aids
22. Bring out the components of pedagogic content knowledge
23. Suggest some activities for Mathematics exhibition.
24. List the preparation of teaching aids.