20. (a) Explain and illustrate the spiral plan of organizing the Mathematics curriculum. What are the advantages of spiral plan over the topical plan of organization?

(OR)

(b) What principles would you have in mind while selecting a good text book on Mathematics? As a teacher of Mathematics, how will you make use of the text book in the class room?

Register Number :

Name of the Candidate :

7 7 6 4

B.Ed. DEGREE EXAMINATION, 2010

(SECOND YEAR)

(PAPER - XII)

803. CONTENT AND METHODOLOGY OF TEACHING MATHEMATICS – II

December] [Time : 3 Hours

Maximum : 80 Marks

SECTION – A (10 × 2 = 20)

Answer ALL questions.
All questions carry equal marks.

1. Mention the components of a model.
2. Write the disadvantages of concept attainment model.
3. What are the demerits of the seminar method?
4. Are you in favour of a separate library for Mathematics? Why?

Turn Over

5. What is the need for revision of curriculum in Mathematics?

6. Differentiate linear programming from branching programming.

7. What are the advantages of CAI?

8. What is supervised study?

9. Mention the advantages of field visit.

10. What is the use of Mathematics laboratory?

SECTION – B (6 × 5 = 30)

Answer any SIX questions.
Answer should not exceed 250 words each.
All questions carry equal marks.

11. Illustrate how Mathematics club activities can be used to tap creativity of pupils.

12. What is meant by programmed learning? On What psychological principles is it based on?

13. What are the basic principles to be considered while selecting the various topics in the Mathematics curriculum?

14. Explain the Syntax of Advanced organizer Model.

15. How will you make use of discussion method effectively in teaching Mathematics?

16. Explain the objectives of library based learning.

17. How will you organize a Mathematics exhibition?

18. How will you evaluate curriculum in Mathematics?

SECTION – C (2 × 15 = 30)

Answer the following questions with
750 words each.
All questions carry equal marks.

19. (a) Discuss Bruner's model of teaching with an example in Mathematics.

(OR)

(b) Explain the model of teaching advocated by Richard Suchman.

Turn Over