4

20. (a) Describe 'Aptitude Treatment Interaction' (ATI) research, giving examples of studies relating to Mathematics education.

(OR)

(b) What do you understand by review ? What is its place in the teaching of Mathematics ? How will you make it more effective ?

Register Number :

Name of the Candidate :

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B.Ed. DEGREE EXAMINATION, 2010

(SECOND YEAR)

(PAPER - XI)

703. INNOVATIONS, TRENDS AND APPROACHES IN TEACHING OF MATHEMATICS - I I

December]   [Time : 3 Hours

Maximum : 80 Marks

SECTION - A $(10 \times 2 = 20)$

Answer ALL questions .
All questions carry equal marks.

1. Mention the categories under 'teacher's indirect talk.'

2. Define aptitude.

3. What do you mean by assignment in Mathematics ?

4. What is the need for interaction analysis ?

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5. Mention different types of assignments.

6. Write any two characteristics of review of units.

7. What are the outcomes of research ?

8. What do you mean by concept in Mathematics?

9. Mention the important class-room behaviours a Mathematics teacher should develop.

10. What are the factors for causing loss and distortion in class-room interaction ?

SECTION - B (6 × 5= 30)

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

11. What guidelines do you follow in preparing assignments ?

12. Professional self development is necessary. Why ?

13. Mention at least six criteria emphasised in the selection of a research topic in Mathematics education.

14. Explain the procedures to be followed in matrix analysis in FIAS.

15. How is assignment indispensible in the teaching of Mathematics ?

16. Discuss the causes of individual differences.

17. Explain intelligence and aptitude by enlightening the differences.

18. Discuss the need for research in Mathematics education.

SECTION - C (2 ×15= 30)

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

19. (a) What is class-room climate ? What are the different types of class-room climate? Which one do you prefer in teaching Mathematics ?

(OR)

(b) What are the characteristics of good assignments ? Illustrate.

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