

**SCHOOL OF DISTANCE EDUCATION, BHARATHIAR
UNIVERSITY**

B.Ed. MODEL QUESTION PAPER –MAY 2010

MATHEMATICS EDUCATION

Time: 3Hrs Max 100 Marks

Answer any FIVE questions
5x20=100

All questions carry equal marks

I. Write essay in 2500 words

1. Explain the nature and aims of teaching mathematics. 20 Marks
2. Write notes on the methods of teaching mathematics and list any five advantages of team teaching in mathematics. 20 Marks
3. What are the special qualities of a good mathematics teacher? As a mathematics teacher, how will you organise a mathematics club and its activities? 20 Marks
4. Explain the contributions of Piaget, Gagne and Bruner in teaching of mathematics. 20 Marks

II. Answer in 1250 words.

5. a) Discuss the contribution of any one Indian mathematician to the development of mathematics? 10 Marks

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- b) Write notes on programmed learning. 10 Marks
6. a) Discuss the different types of curriculum in mathematics. 10 Marks
- b) What is a flow chart? Draw a flow chart to compute the greatest of any three numbers. 10 Marks

III. Answer in 650 words

7. a) Explain the relationship between mathematics and physics. 5 Marks
- b) What are the importances of using teaching aids in mathematics? 5 Marks
- c) Differentiate lesson plan and unit plan. 5 Marks
- d) Explain the components of Herbartian model lesson plan. 5 Marks
8. a) Mention the importance of work book and text book in teaching and learning mathematics. 5 Marks
- b) Draw the Block diagram of digital computer. 5 Marks
- c) Differentiate diagnostic test and prognostic test. 5 Marks
- d) Write a note on recent trends in mathematics education. 5 Marks