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Register Number
Name of the Candidate:

B.Ed. DEGREE EXAMINATION, May 2015

(FIRST YEAR)

603: CONTENT AND METHODOLOGY OF TEACHING MATHEMATICS-I

(New Regulation/Old Regulation)

Time: Three hours

Maximum: OR-80 marks
NR-75 marks

SECTION-A   (10×2=20)
Answer ALL questions
Each answer should not exceed 70 words

1. What are the general aims of teaching mathematics?

2. Mention the limitations of lecture methods in teaching mathematics.

3. What do you understand about mathematics as subject of 'logical structure'?

4. Write the significance of affective domain in learning mathematics.

5. List the components of skill using black board and briefly write about it.

6. What are the criteria of a good lesson plan?

7. Write any three differences between standardized and teacher made test.

8. What does an achievement test measure?

9. Mention the advantages of positive reinforcement.

10. What are 'Action Verbs'?

SECTION-B   (5×5=25)
Answer any FIVE questions
Each answer should not exceed 250 words

11. Discuss the need for understanding the nature of mathematics.

12. Write short notes on Bloom's Taxonomy of Educational objectives.

13. Define micro teaching. Explain the micro teaching cycle and the procedures involved in it.

14. Explain the steps involved in the construction of objective type test.

15. Describe how Heuristic method of teaching helps in Independent and Discovery learning.

16. What are the basic principles of lesson planning? Discuss the various approaches to lesson planning.

17. Why objective type test items are considered to be effective? Justify.

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SECTION-C   **(2×15=30)**

Answer ALL questions

Each answer should not exceed 750 words

19. a) What are General and Specific instructional objectives? Analyse the need for writing objectives in terms of behavioural change. Present illustrations.

(OR)

b) Explain inductive and deductive methods of teaching mathematics with examples.

20. a) Prepare a micro lesson plan to demonstrate the skill of stimulus variation and explain the process of evaluating it.

(OR)

b) Develop a test design on your own and discuss the methods of preparing Item analysis.

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