

20. (a) Mention the steps in constructing an achievement test in Mathematics showing the test Blue Print and weightage table. Frame one 'short answer' two multiple choice and one 'completion type' question.

(OR)

- (b) Explain logical and abstract nature of Mathematics.

Register Number :

Name of the Candidate :

**8 1 1 6**

**B.Ed. DEGREE EXAMINATION, 2012**

**( FIRST YEAR )**

**( PAPER - VI )**

**603. CONTENT AND METHODOLOGY OF  
TEACHING MATHEMATICS - I**

December ]

[ Time : 3 Hours

Maximum : 80 Marks

SECTION - A (10 × 2 = 20)

Answer ALL questions in about 70 words each.

All questions carry equal marks.

1. Define micro teaching.
2. What are the advantages of analytic method in teaching Mathematics ?
3. What is scoring key ?
4. Mention the components of skill of reinforcement.
5. What is heuristic method ?

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6. Write the components of achieving closure.
7. What is vividness in Mathematics?
8. Mention the advantages of lecture method.
9. Is black-board essential for teaching Mathematics? Why?
10. What is an achievement test?

SECTION - B (6 × 5 = 30)

Answer any SIX questions.

Answer should not exceed 250 words each.

All questions carry equal marks.

11. Give five uses of good lesson plan in Mathematics.
12. Distinguish between the inductive and deductive methods in learning a mathematical 'rule' with an example.
13. Explain with suitable illustrations from Mathematics how the knowledge of the objectives influences your teaching and testing practices.
14. Explain the steps involved in a micro cycle.

15. Describe the two types involved in the laboratory method.
16. Explain objectives under cognitive domain as prescribed by Bloom.
17. Write any six S.I.O's for teaching a topic in Standard IX.
18. Write a micro lesson on the skill of 'probing questioning' in Mathematics.

SECTION - C (2 × 15 = 30)

Answer the following with 750 words each.

All questions carry equal marks.

19. (a) Illustrate with topics from school Mathematics, how the aims of teaching Mathematics at various levels and the values are overlapping?

(OR)

- (b) Bring out the differences between the GIOs and SIOs relating to the three domains of Bloom's Taxonomy with examples from secondary and higher secondary Mathematics. Why is it necessary to state the SIOs?

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