

(11) Seat No.: _____

No. of Printed Pages : 2

Sardar Patel University
B. Ed. (Advanced) Programme (CBCS)
First Year : Semester – 2 External Examination (NC)
UE02EB2A08

Curriculum and Pedagogy CPS – 3 : Methodology of Teaching Mathematics (NC)

Date: 21/10/16
Day: Friday

Total Marks: 70
Timing: 10:00 am to 1:00 pm

Instructions:

- All the Six questions are compulsory.
- The figures in the brackets to the extreme right indicate marks.

Q.1 (A) Answer the following questions in brief. (Any 5) [15]

1. Explain the meaning and significance of teaching Mathematics in schools.
2. How Applied branch is different from Pure branch in teaching Mathematics?
3. Explain the importance of disciplinary approach in teaching Mathematics.
4. How Puzzles are important in teaching Mathematics?
5. What is teaching aids? How it is important in teaching Mathematics.
6. What are the advantages and disadvantages of Model in teaching Mathematics?

Q. – 2 Answer the following question. [10]

Inductive reasoning works the other way, moving from specific observations to broader generalizations and theories whereas Deductive reasoning works from the more general to the more specific. Sometimes this is informally called a 'top-down approach. Discuss this statement in context to :

- a) Concept of Inductive – deductive approach
- b) Difference between Inductive – deductive approach

OR

Q - 2 Write Short notes on

1. Interdisciplinary Relationship in Mathematics Teaching
2. Worksheets in Teaching Mathematics

Q.3 Answer in approximately 160 words each. (Any 2) [10]

1. Discuss the Disciplinary Approach for organization in Math curriculum.
2. Illustrate the use of Analytic Method in Math teaching.
3. Write a note on Objective types of Questions. Give illustration of each type.

Q.4 [A] Answer the following questions in brief. (Any 5) [15]

1. Explain the concept and significance of unit planning.
2. Prepare an evaluation sheet to evaluate students understanding of the concept 'Angle'.
3. State the advantages and disadvantages of Laboratory method.
4. Write the advantages of math puzzles in teaching mathematics.

(P.T.O.)

5. Differentiate between summative and formative evaluation.
6. State the characteristics of Virtual classroom.

Q. 5 Answer the following questions in brief.

[10]

1. Give two examples of Applied branch of Mathematics
2. Write any two scope of arithmetic branch in mathematics.
3. What is Chart?
4. Name the educationist who gave steps for the lesson plan.
5. What 5Es stands of Constructivist approach in teaching Mathematics?
6. Give definition of Lesson Planning.
7. State two examples of Audio aids.
8. Name the recorder that keeps the track of classroom discussion.
9. What is evaluation?
10. Give any two examples of Puzzles in Mathematics.

Q. 6 Answer in approximately 160 words each. (Any 2)

[10]

1. Laboratory method is a procedure for stimulating the activities of the students and to encourage them to make discoveries. Give your comments
2. You are invited as a resource person to deliver a talk on 'Essay Types of Question in Teaching Mathematics. Prepare an explanatory note for the same.
3. Write an article on 'Math Game an effective way to Teach Mathematics' for the magazine Ganeet Shikshan.

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