SEAT No.

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[31]

Sardar Patel University

B. Ed. (Advanced) Programme (CBCS)

First Year 2017 - 18

Semester – II External Examination UE02EB2A08

Curriculum and Pedagogy CPS - 3: Methodology of Teaching Mathematics

Date: 3/04/2018 Day: Tuesday Total Marks: 70

Time: 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 place of Math in school curriculum in context to multifarious values.
- 2. Write the merits and limitations of Project Method.
- 3. State the principles of teaching aids in Mathematics teaching.
- 4. Differentiate between summative evaluation and formative evaluation.
- 5. What is evaluation rubric? Prepare a rubric to evaluate students' performance in Math project work.
- 6. Show interdisciplinary relationships of Mathematics with other subjects.

$Q_{i}-2$ Answer the following question.

[10]

The Analytical Method is a generic process combining the power of the Scientific Method with the use of formal process to solve any type of problem. Discuss this statement in context to

- 1. Concept with illustration
- 2. Merits and Demerits

OR

Q - 2 Write Short notes on

- 1. Charts as a Teaching Aid Types and Advantages
- 2. Steps for Action Research

Q.3 Answer in approximately 160 words each.

(Any 2)

[10]

- 1. Differentiate between inductive and deductive approach in teaching of Mathematics.
- 2. 'Unit planning begins with identifying the particular content to be taught and your goals for learning outcomes'. Explain this statement with illustration.
- 3. Elaborate various resources in Mathematics teaching.

1

(P.T.O)

Q.4 [A] Answer the following questions in brief.

(Any 5)

[15]

- 1. State the nature of teaching Mathematics in schools.
- 2. Write the advantages of Synthesis method in teaching Mathematics.
- 3. Write a brief note on Math virtual classroom
- 5. Explain the concept and significance of Lesson planning.
- 4. What is objective type of questions? Explain any one type in detail.
- 6. What points will you keep in mind while reviewing Worksheet in teaching mathematics?

Answer the following questions in brief. Q. 5

[10]

- 1. Name the educationist who gave steps for the lesson plan.
- 2. Write a major difference between analysis and synthesis method in teaching Mathematics.
- 3. Write two examples of correlation between Mathematics and Science.
- 4. State two main branches of mathematics.
- 5. Write any two scope of geometry branch in mathematics.
- 6. State three major types of questions in preparing a question paper.
- 7. What 5Es stands of Constructivist approach in teaching Mathematics?
- 8. Which are the two main types of task analysis?
- 9. Write a major aim of using evaluation rubrics in teaching Mathematics?
- 10. Name the research used in solving classroom problems.

Answer in approximately 160 words each.

(Any 2)

[10]

- 1. Prepare a brief write up on concept of Evaluation and significance of evaluation rubrics in teaching of Mathematics.
- 2. Select any one concept from Mathematics Std IX textbook and Prepare two innovative activities
- 3. Write an article on the topic 'Approaches for organization of Math curriculum' for the magazine