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D.El.Ed. Examination JUNE, 2018

First Year (2016 Revised Syllabus)
MATHEMATICS PEDAGOGY

(English Medium)

Time: 11.00 to 1.00 Hrs.

Date: 8/6/2018

(3 Pages)

Max. Marks: 40

| 1. | (a) | Fill in the blanks with suitable word and rewrite the sentence: | | | | | | |
|----|------------|---|--|-------|---|--|--|--|
| | | (1) | Jean Piaget has put forth four stages of | | | | | |
| | | (2) | | | | | | |
| | | (3) | The pioneer of self-search method is Mensional 1 The three-dimensional pattern which is based on objectives, units and type of questions is called as | | | | | |
| | | (4) | | | | | | |
| | <i>(b)</i> | Mate | ch the following : | | | | | |
| | | | 'A' Column | | 'B' Column | | | |
| | | (1) | Aspects of Mathematical Knowledge | (a) 3 | Finding the weak points 1 | | | |
| | | (2) | Generalisation Process | (b) | Fixation of student (place) | | | |
| | - 1 | (3) | Diagnostic test | (c) | Conceptual and procedural knowledge 1 | | | |
| | (| 4) | Use of standard reference test | (d) | Measurement of learning outcomes on large scale 1 | | | |
| | | | | (e) | Inductive reasoning 2 | | | |

Answer the following questions in 60 to 80 words each : 8 State any four characteristics of Mathematics subject 2) Abstractness 4) Mathemitical Write any four levels of geometrical thinking of Van Hiele. Ovi sualization 2) Analysis 3) Abstraction is orduction of Regor Write four names of tools in Mathematics laboratory and state its uses. 10ill types of pics 6 charts 2) Models 3 measure in 4) Drawing instruments of BlockBoard. Prepare objectivewise chart to show distribution of marks in (4) a 25 marks test. Answer the following questions in 120 to 160 words each: 12 "Mathematics helps in progress of nation." Explain the above statement with three examples. OC Stiene & Ledino Explain how will you use Mathematics subject in agriculture, sports and daily life giving one example of each. P 9/10 Explain the application of Jean Piaget's theory of cognitive development in Mathematics teaching-learning process with three examples. P9139 Sensony Motor Stage Write three points of differentiation between Perimeter. Or What is meant by equivalent fraction? Explain the concept with two diagrams.

How did you use the Mathematics text-book as a Mathematics

teacher? Explain.

(1) Complete the following chart of information about geome

| | Figure | Name of Figure | of No. of Sides | of No. of Corners |
|-------|------------------|----------------|-----------------|-------------------|
| (1) | | Rec | 14 | 14 |
| (II) | | - Rri | 3 | 3 |
| (III) | | Civele | 0 | 0 |
| (IV) | a project and av | Squari | 4 | 4 |

Suggest a project and explain its implementation according to the steps of project.

Or

Explain with examples how you will teach the concept of "ones" and "tens" with the help of experimental method.

(3) Prepare two Mathematical puzzles on various Mathematical operations and write its logical answers.