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D.El.Ed. Examination
JANUARY, 2023

First Year (2016 Revised Syllabus)

MATHEMATICS PEDAGOGY

(English Medium)

Time : 11.00 to 1.00 Hrs.

Date : 17/01/2023

(3 Pages)

Max. Marks : 40

1. (A) Fill in the blanks with proper words and rewrite : 4

- (1) Area of a square having length 5 cm is
- (2) In Algebra is used in place of unknown number.
- (3) In order to find out the learning gaps (कच्चे दुवे) in a subject test is taken.
- (4) Complete the following numerical series :

3, 9, 27, 81,

(B) Match the following pairs: 4

'A' Group

'B' Group

- | | |
|--------------------------|------------------------------|
| (1) Project method | (a) John Dewey |
| (2) Inductive method | (b) Huxley |
| (3) Heuristic method | (c) Dr. H. E. Armstrong |
| (4) Demonstration method | (d) Stevensons |
| | (e) From specific to general |

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P.T.O.

2. Answer the following questions in 60 to 80 words each : 8

(1) Write four activities carried out by Mathematics Association (गणित मंडळ).

(2) Write a short note :

Mathematics and personality development.

(3) Write definition :

(i) Structure

(ii) Perimeter.

(4) Write four merits of project method.

3. Write the answers in 120 to 160 words each : 12

(1) Explain the correlation between various branches of Mathematics subject with examples.

Or

Explain the correlation between Mathematics and any other three subjects with examples.

(2) Explain the first three levels of Geometrical thinking process (भूमितीय विचारांचे स्तर) given by Van Hiele.

Or

Explain any three equivalent fractions (सममूल्य अपूर्णांक) with the help of figures.

(3) Explain the difference between analytic method and synthetic method.

(4) Explain with three examples, how you will use mathematical knowledge when you visit a bank ?

4. Answer the following questions in 200 to 250 words each : 12

- (1) Explain the meaning of an angle and construct three angles 60° , 90° and 180° with the help of the protractor.
- (2) Write the unit plan of any one unit of std. IV Mathematics text-book.
- (3) Which tools will you use as a teacher to take the viva-voce (verbal) test ?

Or

As a teacher explain how you will increase the interest of students in Mathematics subject ?