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D.El.Ed. Examination
JUNE, 2024

First Year (2016 Revised Syllabus)
MATHEMATICS PEDAGOGY
(English Medium)

Time : 11.00 to 1.00 Hrs.

Date : 13/6/2024

(3 Pages)

Max. Marks : 40

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

- (1) 15 minutes =⁹⁰⁰.....seconds.
- (2) Inductive method is invented by
- (3) Reviewing any phenomenon on the basis of all factual information and evidences is called~~Inductive~~..... thinking.
- (4) Sequential arrangement of numbers means Ordering of numbers.

(B) Match the pairs : 4

Group A	Group B
(1) Psychomotor stage	(a) ₂ No logic, use of symbols
(2) Pre-operational stage	(b) ₁ Logical thinking related to abstract concepts
(3) Concrete operational stage	(c) Lack of information and experience
(4) Formal operational stage	(d) ₄ Completing activity in given time
	(e) ₄ Logical thinking related to concrete objects

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and, ~~and~~, radical, objective
operations, skills

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

- (1) Explain importance of supervised study in Mathematics. 2
- (2) Explain any four levels of Van Hiele's model of Geometric thinking. 2
- (3) Write four uses of structure of maths for teachers. 2
- (4) Write any four tools of formative evaluation. 2

3. Answer the following questions in 120 to 160 words each : 12

- (1) Prepare checklist of six points to evaluate development of neatness and accuracy in the students due to learning of Mathematics. 3

- (2) Observe the given number sequence and answer the questions : 3

2, 4, 5, 6, 7, 13, 17

- (i) Which is the smallest prime number ?
 - (ii) Write down twin prime numbers.
 - (iii) Which is the smallest composite number ?
- (3) Write content analysis of the topic 'Circle'. 3

Or

Write importance of maths text-book for students.

- (4) Prepare pictograph based on the information of occupation of parents of 150 students :

3

	Occupation of parents	No. of students
(i)	Farming	60
(ii)	Job in private firm	20
(iii)	Government job	30
(iv)	Other work	40

Or

If 1 m 75 cm cloth is required for stitching 1 shirt, find out total cloth required for stitching 75 shirts.

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

- (1) Prepare concentric arrangement for the unit "Measurement". 4
- (2) How will you organise *four* creative activities for teaching maths to the students of std. IV ? *make, puzzle* 4
- (3) What is meant by co-relation ? Explain co-relation between branches of mathematics by giving *one* example each. 4

Or

Differentiate between conceptual knowledge and operational knowledge (any *four* points).