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D.El.Ed. Examination
DECEMBER, 2023

Second Year (2016 Revised Syllabus)
SCIENCE & MATHEMATICS PEDAGOGY
(English Medium)

Time : 3.00 to 5.00 Hrs.

Date : 20/12/2023

(4 Pages)

Max. Marks : 40

1. (A) Fill in the blanks and rewrite it : 4
- (1) The word 'structure' is introduced by the Psychologist 1
- (2) is known as 'India's Missile Man'. 1
- (3) % knowledge is acquired by ears. 1
- (4) The perspective which collects the information about facts and accepts if considering its reasoning, on the basis of scientific principles is perspective. 1
- (B) Correct the sentences and rewrite it : 4
- (1) Human being has done a lot of progress due to politics. 1
- (2) National Science Day is celebrated on 25th February. 1
- (3) Standardised tests are used to find learning gaps. 1
- (4) Scheme of marking is prepared before framing question paper. 1

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P.T.O.

2. Write the answers of the following questions in 60 to 80 words each : 8

(1) Differentiate between Experimental and Demonstration method. 2

Or

$\frac{1}{2}$ Write the steps of Project method.

$\frac{1}{2}$ (2) Write the objectives of Mathematics at higher primary level. 2

Or

Write the general objectives of General Science.

~~(3) What are the skills required for a teacher in today's age of technology ? 2~~

~~(4) If the length of one side of square is 18 cm, then find the area of a square. 2~~

Or

$\frac{1}{2}$ The radius of a circle is 7m. Find out the area of a circle.

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

1 1/2 ✓ (1) Explain the classification of disaster with examples. 3

Or

Prepare a chart of nutrients, their functions, their sources and diseases caused due to deficiency of nutrients.

2 ✓ (2) While teaching Science how will you correlate other subjects with it ? 3

1 1/2 ✓ (3) Prepare the checklist of self-evaluation in Mathematics subject. 3

1 1/2 ✓ (4) For teaching Science, how will you use learning resources ? 3

Or

Which supportive systems (आधार प्रणाली) will you use in order to create interest in Mathematics ?

4. Write the answers of the following questions in 200 to 250 words each : 12

$2\frac{1}{2}$ (1) What activities will you conduct to develop student's scientific and mathematical perspective ? 4

Or

What measures will you suggest for the conservation of the extinct plants and animals ?

(2) Monthly expenses of a family is given below. By using it prepare frequency distribution table and calculate the 'mean' of it : 4

50, 48, 50, 38, 36, 50, 48, 46, 42, 38,

32, 45, 42, 32, 38, 45, 58, 50, 36, 38,

48, 47, 40, 32, 45, 38, 50, 48, 32, 48.

Or

4 (3) Draw a circle having center 'O' including radius, diameter and chord.

$3\frac{1}{2}$ (3) Do internal and external analysis of any one textbook of Std. 6 to 8 of subject Mathematics/Science. 4