

D.El.Ed. Examination
MAY, 2022

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

Time : 3.00 to 5.00 Hrs.

Date : 30/5/2022

(4 Pages)

Max. Marks : 40

(A) Rewrite the sentences by filling in the blanks given below with appropriate words : 4

- (1) The force applied by the earth to pull the objects towards itself is called force.
- (2) 'Reflection of light', the place of this component in the structure comes in the main branch of General Science subject.
- (3) The questions whose answers are given identifying from the given alternatives are called questions.
- (4) Heuristic method was invented by

(B) Write whether the following statements are true or false : 4

- (1) In the deficiency of Vitamin C scurvy disease occurs.

- (2) The attitude of the mathematics teacher should be without prejudice.
- (3) Discussion method is teacher-centred method.
- (4) Mathematician Ramanujan has written a treatise named 'Siddhant Shiromani'.

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

- (1) Explain the relationship between Physics and Chemistry.

Or

How is the subject of science used in the subject of work experience ?

- (2) Explain the contribution of science in the medical field.
- (3) If the cost price is Rs. 5,000 and the selling price is Rs. 6,000, then what will be the profit percent ?

Or

If the length of a rectangle is 20 m and width 15 m, then find the perimeter of the rectangle.

- (4) Write any *two* ways with examples to awaken the interest of the subject of mathematics in the students.

Or

Write any *four* objectives of General Science subject at higher (upper) primary level.

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

(1) Explain the nature of school library.

Or

Which precautions will you follow while using the instructional method in classroom/class teaching ?

(2) What action plan will you take to improve the written examination ? Write any six action plan.

(3) Prepare a list of problem index of six statements in Mathematics for class 6th students.

(4) Write information about any one scientific public awareness programme displayed in your school.

Or

Illustrate the importance of the study of science for human welfare.

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

(1) Make a diagnostic test based on internal characteristics of class 7th General Science textbook.

Or

Analyse the meaning of 'Air' component in class 8th General Science textbook.

- (2) Write about the Government plan to solve social problems known to you.
- (3) According to you what should be the design of the ideal laboratory ? Explain it with figure (diagram),

Or

How will you take care of the laboratory in your school ? Clarify.