8. Solve the following pairs of linear equations by elimination and substitution method : **8**

(i) $x + y = 5$ and $2x - 3y = 4$

(ii) $\frac{x}{2} + \frac{2y}{3} = -1$ and $x - \frac{y}{3} = 3$.

Unit V

9. If median of the following frequency distribution is 32.5. Find the values of f_1 and f_2 : **8**

Class	Frequency
0–10	f_1
10–20	5
20–30	9
30–40	12

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B.El.Ed. (First Year)

EXAMINATION, 2026

(Regular & Re-appear)

CORE MATHEMATICS

Time : 1½ *Hours*] [*Maximum Marks :* 40

Before answering the question-paper, candidates must ensure that they have been supplied with correct and complete question-paper. No complaint, in this regard will be entertained after the examination.

Note : Attempt *Five* questions in all, selecting *one* question from each Unit. All questions carry equal marks.

Unit I

1. Write a note on arithmetic operations and explain any *two* arithmetic operations. **8**

2. Solve :

(a) $\sqrt{\frac{0.324 \times 0.081 \times 4.624}{1.5625 \times 0.0289 \times 72.9 \times 64}}$ **4**

(b) If $\frac{1}{36.18} = 0.0276$, then what is the value of $\frac{1}{0.0003618}$? **4**

Unit II

3. Explain the concept and measurement of length. **8**

4. (a) How many boxes of dimensions 2 cm × 3 cm × 5 cm can be fitted into a box of dimensions 8 cm × 20 cm × 12 cm ? **4**

(b) Area of a triangle is 60 cm^2 and its base is 8 cm, then find the height of the triangle. **4**

Unit III

5. Discuss the concept of projection in detail. **8**

6. What is Closest Packing ? Explain. **8**

Unit IV

7. (a) Sum of three numbers is 98. If the ratio between the first and second be 2 : 3 and that between second and third be 5 : 8, then find the second number. **4**

(b) Rs. 425 is divided among 4 men, 5 women and 6 boys such that the share of a man, a woman and a boy is 9 : 8 : 4. What is the share of a woman ? **4**

40–50	f_2
50–60	3
60–70	2
Total	40

10. Draw a flow chart to explain the process of computation of tax. **8**

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40–50	f_2
50–60	3
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10. Draw a flow chart to explain the process of computation of tax. **8**

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