Date 2 Time of Examination - 30/11/2021, 9:30 AM

Examination Roll No. - 18312911011

Name of the Program - B. tech (IT 2 MI)

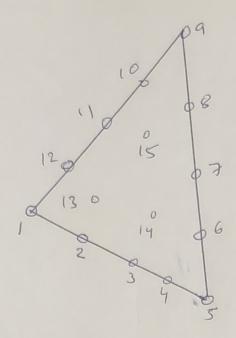
Semester / Year - VII Semester / IV year

Unique Paper Code - 911710

Title of Paper - fluidity in Nature:

Computational Interpretations

9.6



$$Y_{1} = (L_{1} - 0)(L_{1} - 1/4)(L_{1} - 2/4)(L_{1} - 3/4)$$

$$= \frac{32}{3}(L_{1} - 0)(L_{1} - 1/4)(L_{1} - 2/4)(L_{1} - 3/4)$$

$$\Psi_{2} = (L_{2} - 0)(L_{1} - 0)(L_{1} - 1/4)(L_{1} - 2/4)$$

$$\frac{1}{4} \cdot \frac{3}{4} \cdot \frac{2}{4} \cdot \frac{1}{4}$$

= 128 (4-0) (11-14) (11-2) (42-0)

$$\frac{1}{2} = \frac{(L_3 - 0)(L_3 - 1/4)(L_2 - 0)(L_2 - 1/4)}{2 + 4}$$

$$= \frac{64(L_2 - 0)(L_3 - 1/4)(L_2 - 0)(L_3 - 1/4)}{4 \cdot 4 \cdot 4 \cdot 4 \cdot 4 \cdot 4}$$

$$= \frac{128}{3}(L_2 - 0)(L_3 - 0)(L_3 - 1/4)(L_3 - 2/4)$$

$$\frac{1}{3} \cdot \frac{3}{4} \cdot \frac{2}{4} \cdot \frac{1}{4}$$

$$= \frac{32}{3}(L_3 - 0)(L_3 - 1/4)(L_3 - \frac{2}{4})(L_3 - \frac{3}{4})$$

$$\frac{1}{3} \cdot \frac{3}{4} \cdot \frac{2}{4} \cdot \frac{1}{4}$$

$$= \frac{32}{3}(L_3 - 0)(L_3 - 1/4)(L_3 - \frac{2}{4})(L_3 - \frac{3}{4})$$

$$\frac{1}{4} \cdot \frac{3}{4} \cdot \frac{2}{4} \cdot \frac{1}{4}$$

$$= \frac{128}{3}(L_1 - 0)(L_3 - 0)(L_3 - 1/4)(L_3 - \frac{2}{4})(L_3 - \frac{2}{4})$$

$$\Psi_{11} = (L_{1} - 0)(L_{1} - L_{1})(L_{3} - 0)(L_{3} - L_{1})$$

$$= 64(L_{1} - 0)(L_{1} - L_{1})(L_{3} - 0)(L_{3} - L_{1})$$

$$\Psi_{12} = (L_{3} - 0)(L_{1} - 0)(L_{1} - L_{1})(L_{1} - 24)$$

$$= \frac{128}{3}(L_{3} - 0)(L_{1} - 0)(L_{1} - L_{1})(L_{1} - 24)$$

$$\Psi_{13} = (L_{1} - 0)(L_{1} - L_{1})(L_{2} - 0)(L_{3} - 0)$$

$$\frac{2}{4} \cdot \frac{1}{4} \cdot \frac{1}{4}$$

$$= 128(L_{1} - 0)(L_{1} - L_{1})(L_{2} - 0)(L_{3} - 0)$$

$$\Psi_{14} = (L_{2} - 0)(L_{2} - L_{1})(L_{3} - 0)(L_{1} - 0)$$

$$= 128(L_{2} - 0)(L_{2} - L_{1})(L_{3} - 0)(L_{1} - 0)$$