Root Development

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| **Across**  **5.** Takes place after crown is completely shaped & tooth is starting to erupt into the oral cavity.  **8.** As a result of the apposition of cementum over the dentin what is formed?  **9.** Cells that form cementoid and move to cover the root dentin area and undergo cementogenesis, laying down cementum matrix, or cementoid.  **10.** Shapes the root by inducing dentin formation in the root & then disappears and becomes ERM.  **13.** As the cementoid surrounding the cementocytes becomes calcified, or matured, it is then considered what? | **Down**  **1.** Appositional growth of predentin by odontoblasts.  **2.** Forms when the outer cells of the dental papilla in the root area are induced to undergo differentiation and become odontoblasts.  **3.** Cells that produce dentin and differentiate from outer cells of the dental papilla.  **4.** Structure responsible for root development, forms length and shape of root, most cervical part of the enamel organ, a bilayer rim that consists of only IEE & OEE.  **6.** Due to the lack of the intermediate layers of the stellate reticulum and stratum intermedium, HERS induces odontoblastic differentiation but fails to have IEE differentiate into enamel-forming cells known as?  **7.** Many cementoblasts become entrapped by the cementum they produce and become mature what?  **11.** After the differentiation of odontoblasts in the root area, these cells undergo dentinogenesis and begin to secrete this.  **12.** When root dentin formation is completed, part of the basement membrane disintegrates, after disintegration of the root sheath its cells may become this. |

   Root Development        Cervical Loop       HERS       ERM       Predentin       Odontoblasts       Root dentin       Ameloblasts       Dentinogenesis        Cementoblasts        Cementocytes       Cementum       Dentinocemental junction