Stages of Tooth Development for the Primary Dentition & Developmental Disturbances

1. Odontogenesis is the process of	A. Maturation
2. Odontogenesis of the dentition begins between week 6-7 during the embryonic period of prenatal development and is called, the initiation stage.	B. Tooth development
3. Ectomesenchyme is derived from	C. Stomodeum
4. This structure separates the oral epithelium and ectomesenchyme.	D. Ectomesenchyme
5. What is the name for the primitive mouth that occurs during the initiation stage?	E. Basement membrane
6. An extra tooth in between the maxillary central incisors is called a	F. Anodontia
7. The bud stage is the second stage of tooth development begins at the beginning of the eighth week of prenatal development. The bud stage consists of the growth of the dental lamina into buds that penetrate the	G. Initiation
8. The number of buds that each arch will have for the primary dentition.	H. Lingual pit
9. This stage of tooth development includes the interaction of embryological tissue types.	I. Primary
10. Abnormal of the tooth bud can cause macrodontia or microdontia (larger than normal teeth or smaller than normal teeth) during the bud stage.	J. Primary
11. Proliferation, differentiation, and morphogenesis characterize the stage during weeks 9 and 10 during prenatal development.	K. Odontogenesis
12. A developmental disturbance that occurs during the initiation stage due to a lack of initiation within the dental placode within the dental lamina, and is described as absence of a single tooth or absence of many teeth.	L. Apposition
13. The answer to question #12 can be associated with which syndrome?	M. Stellate reticulum
14. Ectomesenchyme deep to the buds condensed into a mass that will produce dentin and pulp.	N. Cap
15. Enamel is of origin.	O. Mesiodens

16. A developmental disturbance that can occur during the initiation stage that results in extra teeth is called Hint: this was initiated from the dental lamina.	P. Proliferation
17. The dentition develops during the embryonic and fetal period.	Q. Hyperdontia
18. The stage of odontogenesis when hard dental tissue fully mineralizes.	R. Ectodermal Dysplasia
19. During the cap stage, a depression results in the deepest part of each tooth bud forming a cap stage of the	S. Gemination
20. The result of this developmental disturbance is a large, single-rooted tooth with a large common pulp cavity.	T. Neural crest cells
21. The enamel organ abnormally invaginates into the dental papilla resulting in the developmental disturbance: dens in dente. A tooth affected by this developmental disturbance typically has a deep This developmental disturbance can occur during the cap stage.	U. Ectodermal
22. Enamel organ layers during the bell stage consist of: OEE, which is a protective barrier for the enamel organ, and the IEE consists of columnar cells of the enamel organ, which will differentiate into ameloblasts. Which two layers are between the OEE and IEE? Hint: these two layers support the production of enamel and stratum intermedium.	V. Enamel organ
23. The stage with formation of the following partially mineralized dental tissue: enamel, dentin, and cementum.	W. Dental papilla
24. Apposition and maturation are the final stages of	X. Ten