

You can use either English or Chinese to answer these questions.

For treating a 12-year-old boy with Class II division 1 malocclusion during mixed dentition stage, please provide your answers to this scenario.

1. Please describe your choice of orthopedic appliances (the most suitable one, only one), its mechanism of correction and how long the treatment should be (i.e. when to stop this phase I treatment). (15%)
2. Please also draw a figure to show the vectors and forces, what kinds of side effects that should be expected or be careful about, and how to prevent them in your design or how to rescue. (15%)
3. Please describe the targeting tissues and associated tissue reactions in your orthopedic appliance including what types of cells are involved, their functions resulting in treatment effect, and the signaling events at different time points (for example, one day, one week, one month, one year). (15%)
4. How would you know if this patient's mandible is still growing? Please discuss possibilities including radiographs, and possible biochemical tests in detail. (20%)
5. Please describe the determinants of mandibular growth and also the muscles attached to mandible that help to maintain its position and function. (35%)

試題隨卷繳回