**2010 Question: What influence does climate have on the characteristics of a Biome?**

**(Hot Desert Biome)** 8 SRP’S for each aspect

Aspect 1: Characteristic Aspect 2: Characteristic Aspect 3: Characteristic

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| 1.Climate influences the rainfall/water content | 1.Climate influences the type of vegetation - cactus | 1.Climate influences the type of animal by adaptation to the vegetation **eg. Burrowing** |
| 2.Climate influences the soil-forming processes – **Laterisation-Calcification-Salinisation** | 2.Climate influences the rate of growth – eg. **in Hot Deserts have mainly slow growing vegetation** | 2.Climate influences animal adaptation to plant food supply |
| 3.Climate influences humus content via short nutrient cycle | 3.Climate influences adaptations to water storage/water shedding | 3.Climate influences animal lifestyle - **nocturnal animals**/ground animals/animal development |
| 4.Climate determines soil colour – Humus content/lack of humus | 4.Climate influences the structure of plants **eg. Tap roots** | 4. Climate influences animal/plant relationships **eg. Not fruit producing to protect from animals** |
| 5.Climate makes soil **Zonal** | 5.Climate influences animal/plant relationships **eg. Kangaroo rat** cannot burrow where soil is calcified | 5.Climate influences animal camouflage **eg.Desert tortoise** blends in with surroundings |
| 6.Climate determines texture – impact of weathering | 6. Climate influences animal/plant relationships | 6. Climate influences biodiversity in Biomes. Hot Deserts have a range of different species |
| 7. Climate determines the depth of soils | 7. Climate influences the growing season length – diurnal temperature range in Hot Deserts | 7. Climate affects the evolution of animals – **eg Desert Fox** has long ears to aid cooling |
| 8. Climate determines the structure of soils – The type of weathering in Hot Deserts leads to a compact structure | 8. Climate influences the method of plant reproduction – eg. **Ephemerals** in Hot Deserts | 8. Climate determines that animals such as the **Gila Monster** – a poisonous lizard can store water in fatty tissues in its tail |

Soil Type Vegetation Animals