Kidney Evolution Paper

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|  | **A** | **B** | **C** | **D** | **F** |
| /5 | Title: Descriptive |  |  |  |  |  |
| /20 | Introduction:  |  |  |  |  |  |
|  | Explain homeostasis: |  |  |  |  |  |
|  | Explain water balance in terms of homeostasis:  |  |  |  |  |  |
|  | Kidney: (10) * Introduce the Kidneys role in water balance.
* Where is it located
* What organisms have it?
 |  |  |  |  |  |
|  |
| /25 | Evolution of Water Balance in Organisms: |  |  |  |  |  |
|  | 1. Unicellular (Paramecium)
2. Multicellular (Planaria)
3. Organismal:
	* In Water:
		+ Insects
		+ Fish (Fresh/Salt)
	* On Land:
	* Amphibian
* Reptiles
* Birds (salt glands)
* Mammals
 |  |  |  |  |  |
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| /25 | Kidney Form and Function: |  |  |  |  |  |
|  | - Describe the structure of a kidney  |  |  |  |  |  |
|  | - Relationship between kidney and nephron  |  |  |  |  |  |
|  | - Discuss function/structure of each piece of nephron |  |  |  |  |  |
|  | - Explain the concentration gradient with the loop of henle |  |  |  |  |  |
|  | - Implications if a kidney fails  |  |  |  |  |  |
|  | - Why would it be better to drink pee than let your kidney stop having something to filter? |  |  |  |  |  |
|  |
| /10 | After Script:  |  |  |  |  |  |
|  | Figure: Reference in text |  |  |  |  |  |
|  | References * Minimum of 3
* Sited at the end in APA/MLA format
* Sited in Text
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