DT AND RAD

BIOCHEMISTRY

ASSIGNMENT FOR VIVA

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SECTION B , BS RADIOLOGY

**(STEPS INVOLVED IN URIC ACID FORMATION )**

**Uric acid is formed by the breakdown of purine nucleotide. Purine nucleotide are (Adenosine, Guanine and inosine) .**

**Generally we have :**

* **Adenosine monophosphate which forms Adenosine**
* **Guanine monophosphate which forms Guanosine**
* **Inosine monophosphate which forms Inosine**

**STEPS:**

* + **At first adenosine monophosphate changes to adenosine in the presence of nucleotidase with removing of one phosphate,**
  + **Similarly inosine monophosphate changes to inosine and Guanosine mono phosphate changes to guanine .**
  + **The adenosine and inosine combine to form Hypoxanthine in the presence of purine nucleotidase and phophorylase with the removing of ribose-phosphate.**

**Similarly in this step the Guanosine changes to guanine in the presence of nucleotidase.**

* + **Now the Hyphoxnathine and Guanine combine to form Xanthine and then the Xanthine convert to Uric acid in the presence of Xanthine oxidase.**
  + **The normal concentration of uric acid in our body is 3-7 mg/dl.**

