

# DENTAL TECHNOLOGY

## BIOCHEMISTRY

### ASSIGNMENT FOR VIVA

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### (STEPS INVOLVED IN URIC ACID FORMATION )

ANS: Uric acid is synthesized mainly in the liver, intestines and the vascular endothelium as the end product of an exogenous pool of purines, and endogenously from damaged, dying and dead cells, whereby nucleic acids, adenine and guanine, are degraded into uric acid. Mentioning uric acid generates dread because it is the established etiological agent of the severe, acute and chronic inflammatory arthritis, gout and is implicated in the initiation and progress of metabolic syndrome. Yet, uric acid is the predominant antioxidant molecule in plasma and is necessary and sufficient for induction of type 2 immune responses. These properties may explain its protective potential in neurological and infectious diseases, mainly schistosomiasis. The pivotal protective potential of uric acid against blood-borne pathogens and neurological and autoimmune diseases is yet to be established.

What causes an increase in uric acid?

Most of the time, a **high uric acid** level occurs when your kidneys don't eliminate **uric acid** efficiently. Things that may **cause** this slow-down in the removal of **uric acid** include rich foods, being overweight, having diabetes, taking certain diuretics (sometimes called water pills) and drinking too much alcohol

# SYNTHESIS OF URIC ACID

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