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#  **Assignment for viva Biomedical lab instrument**

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#  **Program BS MlT 4 semester**

# **Q1 : Write a note on multiple myeloma ?**

* **Answer 1 :** [**Multiple myeloma**](https://www.webmd.com/cancer/multiple-myeloma/default.htm):
* its also known as Kahler’s disease, is a type of [blood cancer](https://www.webmd.com/cancer/lymphoma/types-and-differences). There’s no cure, but treatments can slow its spread and sometimes make symptoms go away.

## Multiple myeloma ( also k/a plasma cell myeloma , plasmocytoma , monoclonal gammopathy kahler disease ) .

* It is a progressive hematolgic blood disease .
* Most common primary of malignancy of bone . ( 40%)
* **Etiology**
* Seen in ppl exposed to nuclear war heads in WW 2 after latency of 20 years .
* MC seen farmers , wood worker leather workes ,ppl exposed to petroleum produces.

## **Multiple Myeloma Causes .**

* Experts aren’t sure what [causes multiple myeloma](https://www.webmd.com/cancer/multiple-myeloma/are-you-at-risk-for-multiple-myeloma). But you’re more likely to get it if:
* You’re older than 65
* You’re male
* You’re African American
* You have a family member with it

## **Multiple Myeloma Symptoms:**

* Early on, you might not notice any symptoms. But over time, you may have:
* Bone pain
* Weakness and fatigue
* Weight loss and loss of appetite
* Upset stomach
* Constipation
* Confusion
* Frequent infections

## **Multiple Myeloma of Diagnosis :**

* End organ damage .
* **Serum / urine M component .**
* Too much calcium in your blood (hypercalcemia)
* Too few red blood cells (anemia)
* Kidney problems

# **Multiple myeloma of treatment :**

* Targeted therapy. Targeted drug treatment focuses on specific abnormalities within cancer cells that allow them to survive. ...
* Biological therapy. Biological therapy drugs use your body's immune system to fight myeloma cells. ...
* Chemotherapy. ...
* Radiation therapy.

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