



# **SNS COLLEGE OF ALLIED HEALTH SCIENCES- COIMBATORE 35**



**DEPARTMENT : RADIOGRAPHY AND IMAGNG TECHNOLOGY**

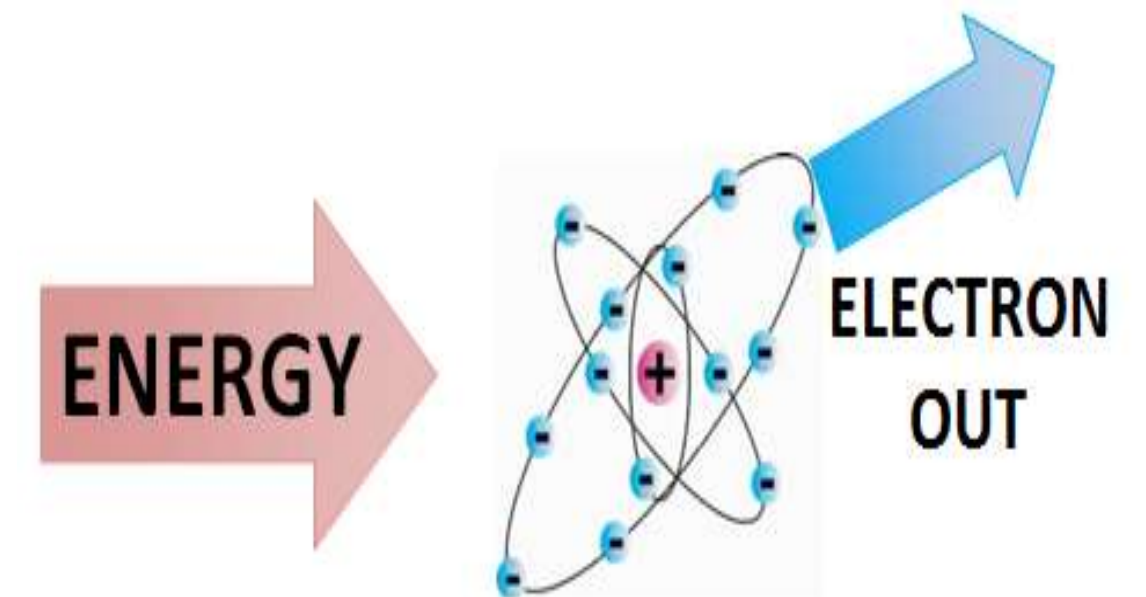
**SUBJECT : GENERAL PHYSICS, RADIATION PHYSICS AND PHYSICS OF  
DIAGNOSTIC RADIOLOGY**

**PAPER : PAPER II**

**TOPIC : 1. IONIZATION  
2. EXCITATION**

# IONIZATION

- Removal of one or more electrons from a neutral atom is called ionization
- After the ionization, the remainder of the atom is left with positive charge and it is known as ionization

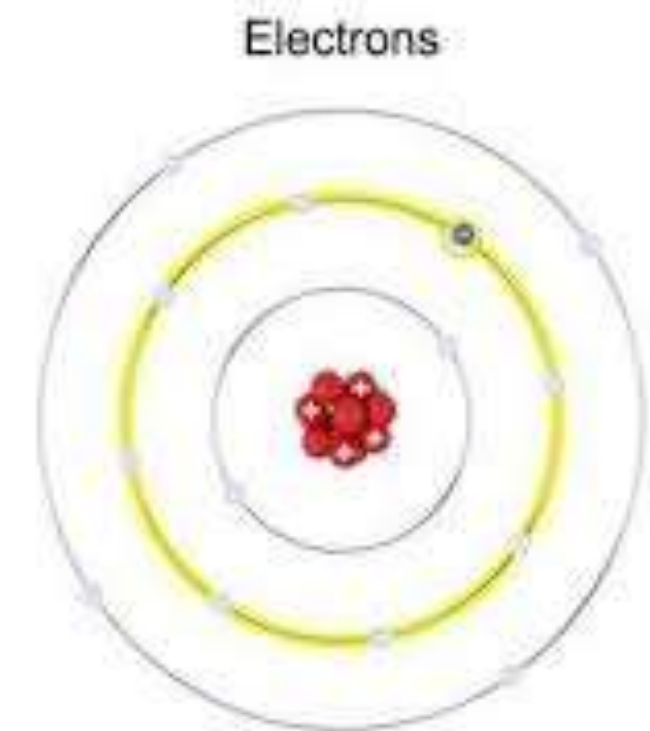




# EXCITATION



- If an atom, if energy is supplied , the electrons can be moved from the inner orbit to the outer orbit.
- Now the atom will have more energy than its normal state.
- It is said to be in an excited state and the process is known as excitation.





# INTERROGATIONS



1. What is ionization ?
2. Excitation of the atom from lower energy to higher energy is
3. What is Atom ?!
4. What is Electron ?!



# REFERENCES

1. Physics for Radiography - Hay and Hughs
2. Ball and mores essential physics radiographers, IV edition, Blackwell publishing.
3. Basic Medical Radiation physics – Stanton.
4. Christensen's Physics of Diagnostic Radiology – Christensen.
5. The physics of Radiology and Imaging – K Thayalan.



**THANK YOU**