**SUBJECT: STRUCTURE** 

**NAME: ASFANDYAR KHAN** 

**ROLL NO: 7399** 

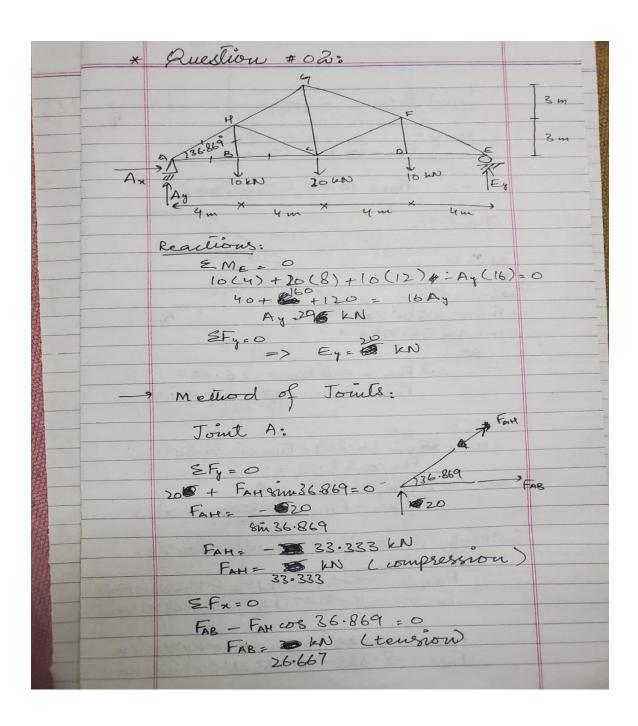
## Ans(1) LOADS:

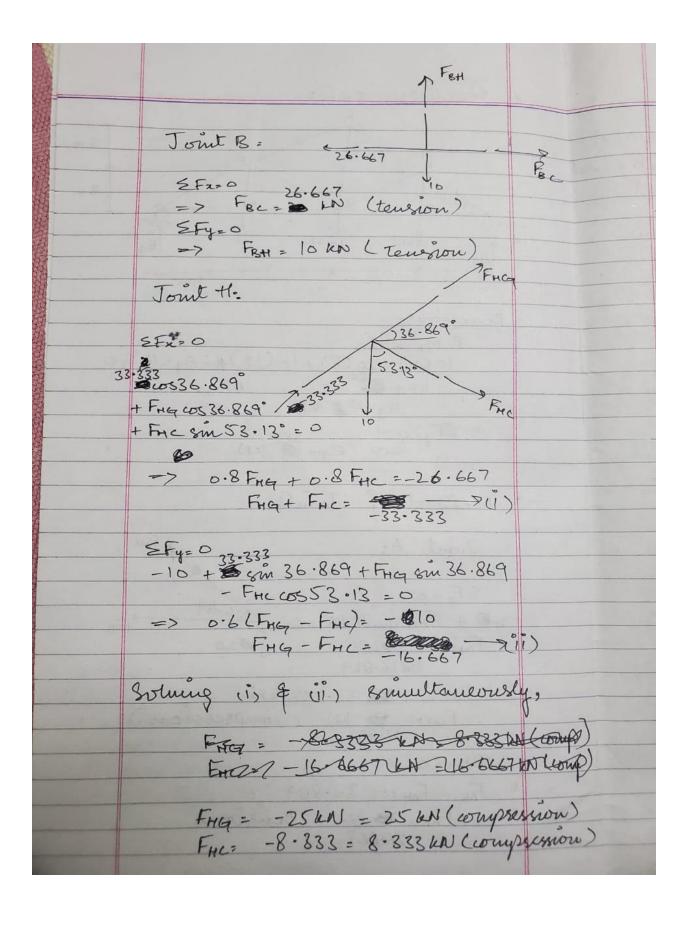
The different type of loads that the civil structures take during their life are as follows

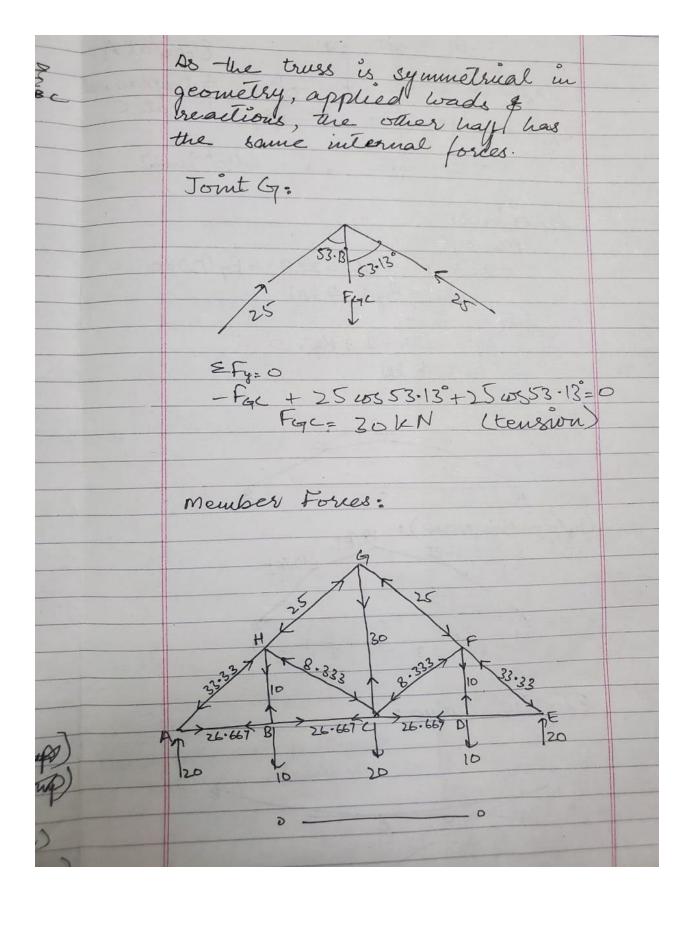
- 1. **DEAD LOAD:** the permanent and stationary load which are transferred to the structure through out the life span is called dead load.
  - **Example:** this load is mainly due to weight of the structure's own components like weight of roof, columns, beam and it also contains partition walls or fixed permanent equipment.
- 2. **LIVE LOAD:** all the movable loads that occur on the structure through out the life span are called live loads
  - **Example:** all the movable things in the structure such as cupboards, people, desks and movable partitions etc. these loads may come and go with different intensity like a high live load of people in a party.
- 3. **WIND LOAD:** this load caused by the air and it is horizontal load which is relative to earth. These loads are more critical for high rise buildings and not so critical for low rise structures
  - **Example:** a modern light gauge frame structure may easily be affected by wind, so the structure must be braced to resist the load
- 4. **SNOW LOAD:** these types of loads are the vertical loads on the building due to snow, and these depend on the longitude and latitude i.e. location of the structure. The shape of the roof of a structure also play role in the loads, the steeper the pitch, lesser the snow and hence low load
  - **Example:** all the snow loads on the roofs of the structures on the northern side
- 5. **EARTHQUAKE LOAD:** these are both vertical and horizontal loads and these are dynamic loading. The response of structure against these loading depend on different factors such as soil type, construction method and duration and magnitude of earthquake.

ANS(2)

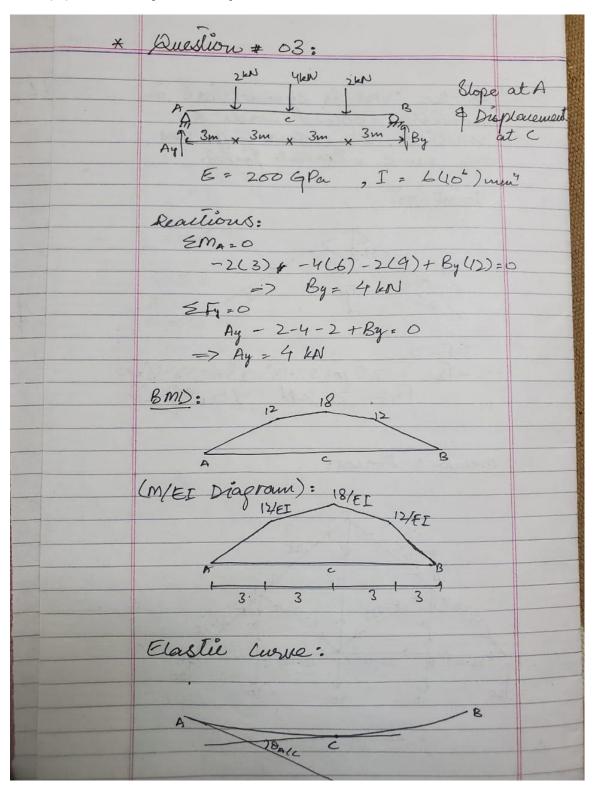
Solved by hand, pictures attached are below,

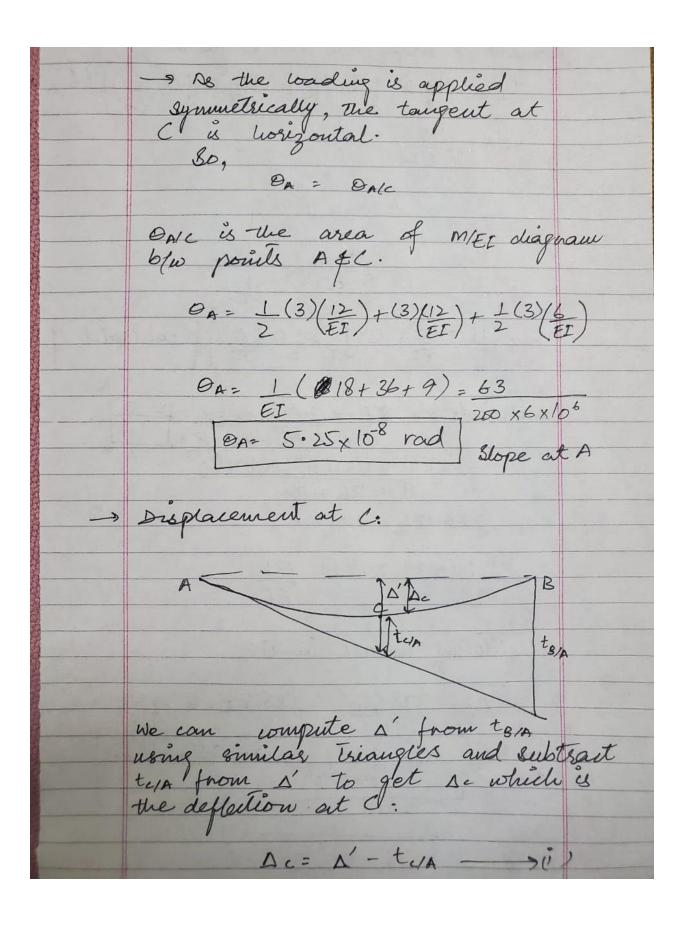


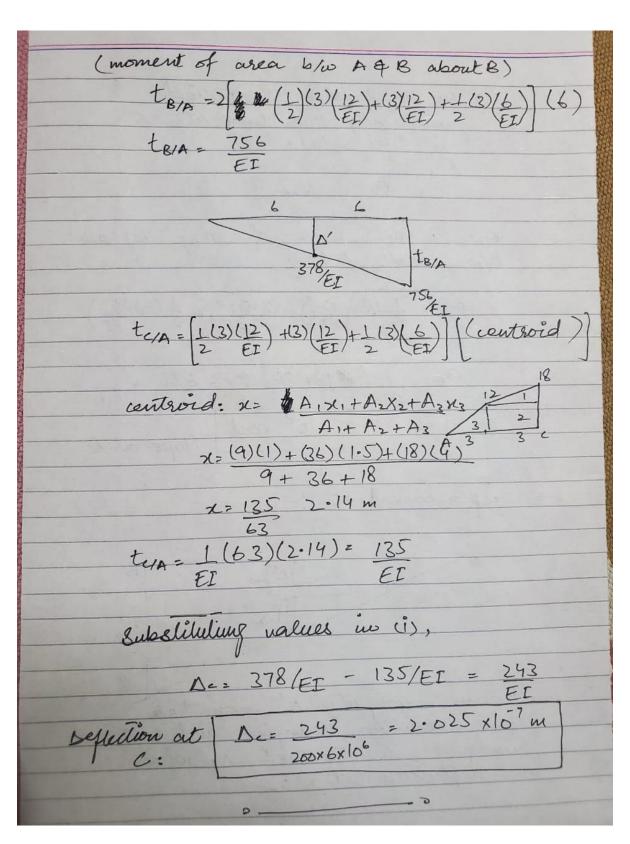




## ANS(3) solved by hands, pictures attached below







THE END