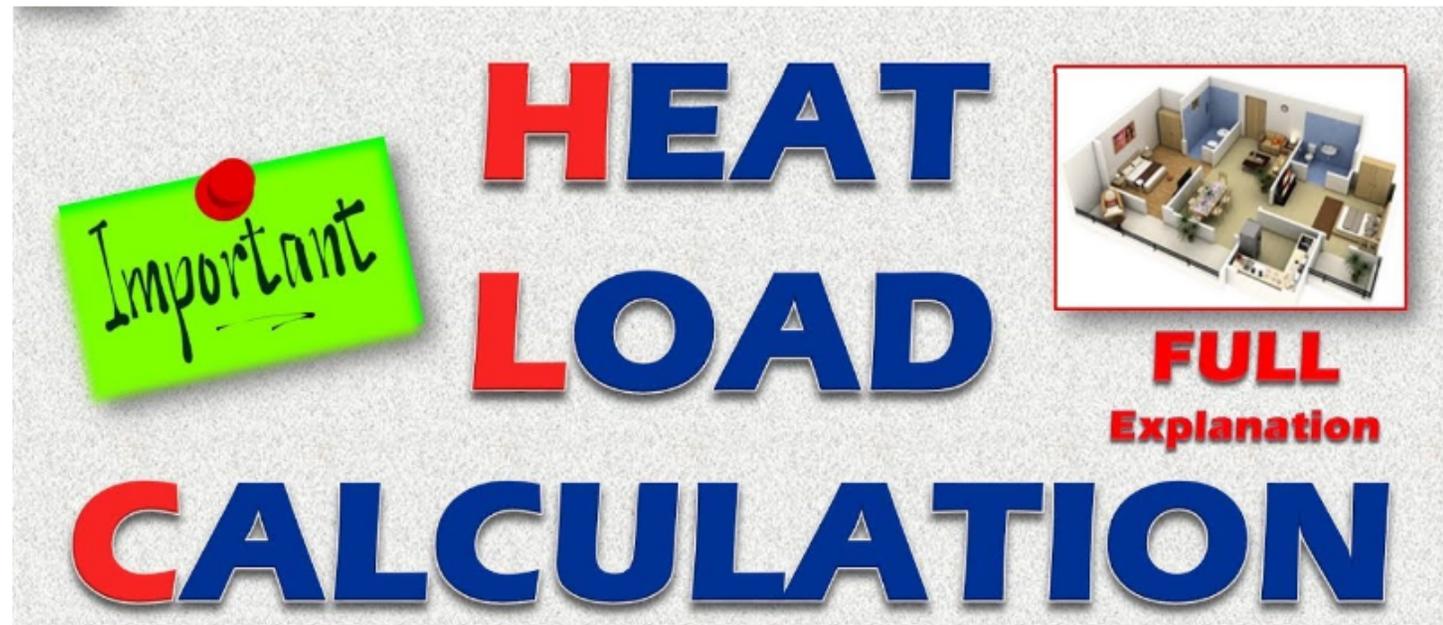


15 - IMPORTANT INTERVIEW QUESTIONS

 A graphic with a light gray background. On the left, a green sticky note with a red pushpin says "Important" in black cursive. In the center, the words "HEAT LOAD" are stacked vertically in large, bold, blue letters with a red shadow. Below them, the word "CALCULATION" is written in the same style. To the right, there is a small 3D isometric illustration of an office interior with desks, chairs, and a computer. Below the illustration, the words "FULL Explanation" are written in red, with "FULL" in a larger font than "Explanation".

HVAC - LOAD CALCULATION INTERVIEW



HVAC SIMPLIFIED



HVAC LOAD CALCULATION INTERVIEW



1. What is Sensible Heat per Person ?

- Sensible heat per person:** This in load calculation accounts for sensible heat contributed by people to the rooms.
- This sensible heat is the effect in change in Dry Bulb Temperature.



QUESTION & ANSWERS





HVAC SIMPLIFIED



HVAC LOAD CALCULATION INTERVIEW



2. What is Latent Heat per Person ?

- Latent heat in load calculation accounts for latent heat contributed by people to the rooms.
- This latent heat is the effect in change in Wet Bulb Temperature.



QUESTION & ANSWERS





HVAC SIMPLIFIED



HVAC LOAD CALCULATION INTERVIEW



3. What is Watts of Lighting Per Square Foot ?

- This input allows you to specify the Watts that you want to be added to each room on a per square foot basis.
- Lighting is typically 1.5 to 2 Watts per square foot.



QUESTION & ANSWERS





HVAC SIMPLIFIED



HVAC Load Calculation Interview



4. What is Watts of Equipment Per Square Foot ?

- This input allows you to specify the Watts that you want to be added to each room on a per square foot basis.
- Equipment is typically 1 Watt per square foot (preliminary Calculation).



QUESTION & ANSWERS





HVAC SIMPLIFIED



HVAC LOAD CALCULATION INTERVIEW



5. What is Safety Factor?

- These input items allow to specify the percentage of the HVAC loads (whether it is sensible gain, latent gain) that should be added as a safety factor.



QUESTION & ANSWERS





HVAC SIMPLIFIED



HVAC LOAD CALCULATION INTERVIEW



6. Evaporative cooling system cools the indoor air by lowering its dry bulb temperature:

- True
- False



QUESTION & ANSWERS





HVAC SIMPLIFIED



HVAC Load Calculation Interview



7. What is CFM per Person Value in Ventilation ?

- ASHRAE 61.1 Ventilation Requirement, Outside air is to be added on a CFM per person basis.
- Typical values range from 5 to 30 CFM per person for ventilation air while 10 CFM per person is most common.



QUESTION & ANSWERS





HVAC SIMPLIFIED



HVAC LOAD CALCULATION INTERVIEW



8. What is CFM per Square Foot Value in Ventilation ?

- ASHRAE 61.1 Ventilation Requirement, Outside air is to be added on a CFM per square foot basis.
- Typical values range from 0.1 to 1.0 CFM per square foot.



QUESTION & ANSWERS





HVAC SIMPLIFIED



HVAC LOAD CALCULATION INTERVIEW



9. When is 100% of supply air used ?

- Outside air comprises 100% of the total air supply. (No Return)
- Also known as Fresh Air Handling Unit. (AHU, PACKAGE)



QUESTION & ANSWERS





HVAC SIMPLIFIED



HVAC LOAD CALCULATION INTERVIEW



10. What is Sensible Heat per Person for Office Work?

- 300 Btuh.
- 250 Btuh.
- 400 Btuh.
- 500 Btuh.



QUESTION & ANSWERS





HVAC SIMPLIFIED



HVAC LOAD CALCULATION INTERVIEW



11. What is Latent Heat per Person for Office Work?

- 300 Btuh.
- 450 Btuh.
- 200 Btuh.
- 500 Btuh.



QUESTION & ANSWERS





HVAC SIMPLIFIED



HVAC LOAD CALCULATION INTERVIEW



12. What is Cooling and Dehumidification Process ?

- In the general the cooling and dehumidification process is obtained by passing the air over coil through which the cool refrigerant or chilled water is passed.



QUESTION & ANSWERS





HVAC SIMPLIFIED



HVAC LOAD CALCULATION INTERVIEW



13. What is CFM Per Ton ?

- The amount of Air Flow (CFM) required to cool down or extract heat per tonnage of refrigerant is know as CFM/TON.



QUESTION & ANSWERS





HVAC SIMPLIFIED



HVAC LOAD CALCULATION INTERVIEW



14. What is Air Changes Per Hour ?

- Outside air is to be added on an air change per hour basis.
- If you enter in an air change per hour value the program will multiply that value by the total volume of the structure and divide the result by 60 to determine the total CFM.



QUESTION & ANSWERS



HVAC LOAD CALCULATION INTERVIEW



15. What is U – Value and what is the unit on it ?

- U – Value is the overall heat-transfer coefficient of the surface.

- Unit of U – Value in Imperial and SI units are.
 - ❖ Btu/hr•ft²•°F
 - ❖ W/m²•°K



QUESTION & ANSWERS

