

Assignment -2

1. What are wing ribs? Why are they used in a wing? Draw a typical schematic of a wing rib.
2. Mention if the statement given below is true or false. Explain your answer with reason(s).
'Wing skin can take large magnitude of bending load.'
3. Explain how the shear stress due to torsion and transverse forces in the wing is supported/resisted.
4. What are longerons and bulkheads?
5. Stringers are susceptible to buckling. How is the critical buckling load at which the stringer, in a wing, undergoes buckling improved?