11 May 2009

ZH score:		Max:
1		5
2		5
3		5
4		5
5		5
Σ ZH		25
ÖF score:		
1		25
Total:		50

1. Specify the generic transport equation in integral form!
2. How can the boundary conditions be interpreter in the case of finite volume method?
3. Demonstrate the meaning of grid skewnes! Why does it lead to numerical errors? How do we measure the skewnes? Approximately, what values of the equangle-skew is allowed for hexahedral and for tetrahedral meshes?
4. What is the Fan model? Please, specify some applications.
5. Briefly describe the "frozen rotor" approach! What are the limits of applicability? What are the advantages of this approach?