Questions:

1. Describe the energy profile of the pressing process or the force-displacement record, characterize the different types of energies.

2. What is plasticity, how can it be calculated?

3. Characterize microcrystalline cellulose, what is the function in tablets?

4. Which differences are between basic types of Avicel??

5. What is the compressibility of MCC and which factors affect it, what is the compression mechanism and lubricant sensitivity?

6. What is the difference in compressibility, tablet strength and lubriciant sensitivity between Avicel PH 102, 200 and Prosolv SMCC 90?

7. What is silicified microcrystalline cellulose, what is its properties and function in tablets?

8. What is Prosolv® technology?

9. How is colloidal silica arranged in Prosolv SMCC and what does it positively influence for this substance?

10. Characterize spray-dried lactose. Give examples of company products.

11. What tableting properties are affected by the amorphous lactose content of spray-dried lactose?

12. What is the compression mechanism of spray-dried lactose and possibilities of improving the compressibility?

13. What is the function of lubricants in the tablet? Give examples of lubricants and their used concentrations.

14. What is the mechanism of action of lubricants?

15. What is the ejection force?

16. What properties of direct compression tablets affect the addition of lubricant?

17. How does the dry binder pressing mechanism relate to its sensitivity to lubricant addition?

18. List the factors affecting the formation of the lubricant film in the directly compressible tablet and hence the future properties of the tablets.

19. What does the LSR value mean, how is it calculated?

20. How can the adverse effect of magnesium stearate on the properties of directly compressed tablets be influenced or reduced?

21. What is the function of magnesium stearate in the tableting material, how does it affect the tablet's properties and what incompatibilities it has?

22. What is the function of sodium stearyl fumarate in the tableting material?