

## Final State Examination topics for Master's degree programme Pharmacy

### PHARMACEUTICAL TECHNOLOGY

revision: 2025

1. *Tablets*, definition and classification, characteristics, production technology, excipients, evaluation.
2. *Powders as a dosage form*, definition and classification, characteristics, properties of powders, preparation of divided and non-divided powders in pharmacy, excipients, evaluation.
3. *Granules*, definition and classification, characteristics, granulation techniques, excipients, evaluation.
4. *Coated dosage forms*, characteristics, reasons for coating, coating technologies, excipients, evaluation.
5. *Capsules*, definition and classification, characteristics, production technology, excipients, evaluation.
6. *Dosage forms with controlled drug release* classification, characteristics of different systems, production technology, excipients, evaluation.
7. *Pharmaceutical solutions*, definition and classification, preparation and production technology, excipients, evaluation.
8. *Parenteral preparations*, definition, classification, requirements, basic aspects of technology, excipients and packaging, evaluation.
9. *Emulsions*, definition and classification, characteristics, preparation and production technology (emulsification techniques), excipients, evaluation.
10. *Suspensions*, definition and classification, characteristics, preparation and production technology, excipients, evaluation.
11. *Gels*, definition and classification, characteristics, preparation and production technology, excipients, evaluation.
12. *Ointments*, definition and classification, characteristics, preparation and production technology, ointment bases and other excipients, evaluation.
13. *Creams*, definition and classification, characteristics, preparation and production technology, cream bases and other excipients, evaluation.
14. *Transdermal preparations*, definition and classification, characteristics of transdermal patches, excipients, evaluation.
15. *Aerodispersions*, definition and classification, inhalation formulations, characteristics of individual systems, excipients, evaluation.

16. *Rectal preparations*, definition and classification, bioavailability; suppositories: characteristics, preparation and production technology, suppository bases and other excipients, evaluation.
17. *Vaginal preparations*, definition and classification, characteristics, preparation and production technology, excipients, evaluation. *Intrauterine devices*, definition and classification, characteristics.
18. *Eye preparations*, definition and classification, requirements, bioavailability, basic aspects of technology, excipients, evaluation.
19. *Nasal and ear preparations*, definition and classification, requirements, characteristics, basic aspects of technology, excipients, evaluation.
20. *Sterile drugs*, definition of sterility, sterile dosage forms, sterilization methods and sterility maintenance during storage and administration (packaging, preservatives); aseptic technique.