Test 3

Hygienic evaluation of the indoor microclimate its effect on a person's heat exchange and health condition

- 1. Optimum microclimate; its definition.
- 2. Mechanisms of chemical thermoregulation.
- 3. Physiological mechanism regulating heat emission in various microclimates.
- 4. The main ways of heat emission.
- 5. Convection, its definition.
- 6. Optimum microclimate indicators in residential buildings.
- 7. Admissible vertical and horizontal temperature fluctuation of indoor air.
- 8. Hygienic importance of enclosing surface temperature; the effect of low temperature of enclosing surface on heat exchange.
- 9. The predominant heat emission in humans at an air temperature of 16-17°C, relative humidity of 70-80%, and air velocity of 0.3—0.5 m/sec.
- 10. Heat emission route that increases considerably upon an increase in the temperature of air and surrounding surfaces.
- 11. Factors affecting heat emission by radiation.
- 12. Causes of radiation cooling of man that develops indoors.
- 13. Human diseases in which abrupt fluctuation of air temperature is especially dangerous.
- 14. The effect of high relative humidity together with high temperature on heat exchange in humans.
- 15. The effect of high relative humidity together with low temperature on heat exchange in humans.
- 16. Equipment measuring relative humidity and air velocity.
- 17. Rules of measuring air temperature indoors.
- 18. Equipment measuring air velocity indoors and outdoors.
- 19. Advantages of through ventilation indoors.