	14. Coefficient Tiffeneau i diseases:	n patients with chronic obstructive pulmonary
	1) increased	2) decreased 3) not changed
	15. Coefficient Tiffeneau i	n patients with bilateral closed pneumothorax is:
	1) increased	2) decreased 3) not changed
$O_2$	15. Coefficient Tiffneou in patients with atelectasis is :	
followings:	1) increased	2) decreased 3) not changed
	16. The attack of bronchia	al asthma can be provoked by:
	1) exciting	4) inhalation of M- cholinomimetic
	2) inhalation of cold	air 5) inhalation of M-cholinolytic
erized by:	3) inhalation of $\beta$ -ad	renomimetic 6) physical exercises
mHg	17. The primary emphysema can be evoked by:	
nmHg	1) senile age	3) bronchiectasis
cterized by:	2) bronchial asthma	4) deficiency of $\alpha_1$ -antitrypsin
Hg	18. The secondary emphys	sema can be evoked by:
mHg	1) bronchial asthma	3) deficiency of $\alpha_1$ -antitrypsin
estrictive	2) senile age	4) bronchiectasis
	19. Point out the possible consequences of early air trapping:	
	1) increased residua	al volume 5) lymphostasis
	2) increased alveola	r ventilation/min 6) hypoxemia
	3) decreased total lu	ing capacity
ructive type	4) increased blood shunting	
	20. The pathogenesis of external respiratory failure can consist of followings:	
	1) disturbance of alveolar ventilation	
	2) disturbance in gas exchanges between blood and tissue	
	3) disturbance in diffusion through alveolar-capillary membrane	
	4) disturbance in gas exchanges between blood and external air	
	5) disturbance in blood circulation in lung	
qual:	21. What are the gas content and acid-base imbalance in blood which	
	characterize respiratory insufficiency in compensatory stage?	
onary	1). hypoxemia	4) respiratory alkalosis
	2) hypocapnia	5) respiratory acidosis
	3) hypercapnia	6) respiratory and metabolic acidosis
tient with	22. What are the gas content and acid-base imbalance in blood which	
	characterize respiratory insufficiency in uncompensatory stage?	
	1) hypoxemia	4) respiratory alkalosis
tient with	2) hypocapnia	5) respiratory acidosis
	3) hypercapnia	6) respiratory and metabolic acidosis
	23. In what manner the tidal volume changes in patients with obstructive	
tient with	type of lung ventilation disturbance?	
	1) increased	2) decreased 3) not changed
		-

24. In what manner the minute alveolar ventilation changes in patients with obstructive type of lung ventilation disturbances?  $\overline{2}$ ) decreased 1) increased 3) not changed 25. In what manner the vital capacity changes in patients with obstructive type of lung ventilation disturbances? 1) increased 2) decreased 3) not changed 26. In what manner the vital capacity changes in patient with restrictive type of lung ventilation disturbances? 3) not changed 1) increased 2) decreased 27. In what manner the maximal lung ventilation changes in patients with obstructive type of ventilation disturbances? 1) increased 2) decreased 3) not changed 28. In what manner the residual volume changes in patients with restrictive type of lung ventilation disturbances? 1) increased 2) decreased 3) not changed 29. In what manner the total lung capacity changes in patients with restrictive type of lung ventilation disturbances? 3) not changed 1) increased 2) decreased 30. In what manner coefficient Tiffeneau changes in patient with restrictive type of lung ventilation disturbances? 1) increased 2) decreased 3) not changed 31. In what manner the residual volume changes in patients with obstructive type of lung ventilation disturbances? 1) increased not more than 20% of predicted 2) decreased 3) remained in normal 32. In what manner the total lung capacity changes in patients with obstructive type of lung ventilation disturbances? 1) increased not more than 20% of predicted 3) remained in normal 2) decreased 33. In what manner the total lung capacity changes in patients with obstructive type of lung ventilation disturbances? 1) increased not more than 20% of predicted 3) remained in normal 2) decreased 34. In what manner coefficient Tiffeneau changes in patients with obstructive type of lung ventilation disturbances? 3) remained in normal 1) increased 2) decreased **35.** Inspiratory reserve volume during chronic obstructive pulmonary diseases can be: 1) increased 2) decreased 3) remained in normal 36. Expiratory reserve volume during chronic obstructive pulmonary diseases can be: 3) remained in normal 1) increased 2) decreased 37. Total lung capacity during emphysema can be: 1) increased 2) decreased 3) remained normal

38. Coefficient Tiffeneau during obstructive pulmonary diseases can be: 3) remained normal 1) increased 2) decreased **39.** Inspiratory reserve volume during atelectasis can be: 1)increased 2) decreased 3) remained normal 40. Total lung capacity during atelectasis can be: 1) increased 2) decreased 3) remained normal 41. Coefficient Tiffeneau during atelectasis can be: 1) increased 2) decreased 3) remained normal 42. Inspiratory dispnea can characterize the followings: 1) chronic obstructive pulmonary diseases 2) stenosis of trachea 4) the attach of bronchial asthma 3) the first stage of asphyxia 5) stenosis of larynx 43. Expiratory dispnea characterizes the followings: 1) chronic obstructive pulmonary diseases 4) the first stage of asphyxia 2) emphysema 3) stenosis of larynx 5) stenosis of trachea 44. The bases of the secondary emphysema development in patient with bronchial asthma are: 1) increased VC 5) increased RV 6) increased ventilation per minute 2) increased TLC 3) early expiratory close of air pathways 4) decreased maximal alveolar ventilation

## The second level of test control

45. What does it mean: *respiratory failure*? Give the definition.

- 46. Give the definition to the term: dy`spnea.
- 47. Point out the pathogenetical forms of respiratory failure (4).
- 48. Point out the pathogenetical farms of lung ventilation disturbances (4).

49. Stimulation of which receptors can lead to development of dispnea? (5)

50. Which indexes the most likely characterize the obstructive type of lung ventilation disturbances?

**51.** Which indexes the most likely characterize the restrictive type of lung ventilation disturbances?

52. Explain the mechanism of cyanosis in patient with respiratory failure.