**Satellite and radio relay systems 60 questions**

1. Describe the features of the propagation of radio waves

2. Describe the classification of the radio system

3. Explain and describe the General principles of RRL

4. Describe the principles of construction of equipment relay stations

5. Write about the purpose of the external unit in the RRS

6. Write about the purpose of the internal unit in the RRS

7. Write how to design RRL

8. Write how to determine the height of the antenna supports

9. Write how to calculate the stability of communication for digital RRL

10. Describe the hierarchy of digital signals.

11. Describe the methods of signal modulation in digital RRL (crrl)

12. Write about coding and signal processing in digital radio relay lines (DRRL)

13. Describe the satellite communication system

14. Write the basic principles of satellite communications

15. Describe the parameters of the orbit in the satellite communication system

16. Describe the types of orbits in the satellite communication system

17. Describe the main characteristics of space stations.

18. Explain and describe the structure of space and earth stations

19. Describe the composition and purpose of the ground segment

20. Describe the block diagram of the earth station

21. Explain and describe the principles of VSAT systems

22. Write about the energy calculation of the satellite communication line.

23. Write about electromagnetic compatibility in the satellite communication system

24. Explain and describe the EMC of geostationary satellite communication networks

25. Write about satellite communication of the Republic of Kazakhstan " KazSat»

26. Describe the technical appearance and main characteristics of " KazSat-103»

27. Write about the loss due to refraction and inaccuracy of antenna guidance in the satellite communication system

28. Explain and describe the main definitions and classifications in the satellite communication system

29. Describe the principles of communication lines and broadcasting in the satellite communication system

30. Write about the orbit of the satellite and the service area in the satellite communication system

31. Describe the geostationary orbit (GEO) in the satellite communication system

32. Describe the average altitude orbits in the satellite communication system

33. Describe the low circular orbits in the satellite communications system

34. Describe elliptical orbits in a satellite communications system

35. Describe the space segment in the satellite communication system

36. Describe space platforms in the satellite communication system

37. Write about the onboard relay complex in the satellite communication system

38. Explain and describe the launch of the satellite in the satellite communication system

39. Explain and describe the earth segment in the satellite communication system

40. Write the main characteristics of the CS in the satellite communication system

41. Describe the international communication station INTELSAT system

42. Describe the earth stations of regional or national systems

43. Describe VSAT earth stations

44. Write about the method of measuring the parameters of the earth station

45. Describe earth stations for TV reception

46. Write about the plans of space services in the satellite communication system

47. Write how to design satellite communication systems

48. Explain and describe the energy calculation of satellite lines

49. Explain and describe electromagnetic compatibility of satellite and terrestrial communication systems

50. Describe the EMC of geostationary satellite communication networks

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52. Describe the technical appearance and main characteristics of " KazSat-103»

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58. Write about the purpose of the internal unit in the RRS

59. Write how to design RRL

60. Write how to determine the height of the antenna supports