«СОГЛАСОВАНО»

«УТВЕРЖДАЮ»

Декан медицинского факультета

медицинского факультета

_____В.Н. Диомидова

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Председатель методической комиссии

от «___»____2024 г.

от «___»____2024 г.

Перечень экзаменационных вопросов (задач, тестов и др.) по дисциплине: «Biology» для студентов I курса по специальности "Dentistry" 2023/2024 учебного года

- 1. Substratum of life and levels of organization of life. properties of the living.
- 2. The structure of the cell. main organelles.
- 3. Parasitism and its criteria. Classification of parasites and their examples.
- 4. The mechanism of action of the parasite on the host organism and its consequences.
- 5. Transmissible and natural focal diseases. Examples.

6. Mechanisms and ways of parasite penetration into the host organism.

7. Relationships between organisms: symbiosis, antibiosis, neutralism. Forms of symbiosis and antibiosis.

8. Dysenteric amoeba. Systematic position, morphology, development cycle. Laboratory diagnostics, prevention.

9. Intestinal and oral amoeba. Their systematic position, morphology, development cycle. Laboratory diagnostics, prevention.

10. Giardia. Systematic position, morphology, development cycle. Laboratory diagnostics, prevention.

11. Trichomonas. Systematic position, morphology, development cycle. Laboratory diagnostics, prevention.

12. Trypanosoma. Systematic position, morphology, development cycle. Laboratory diagnostics, prevention.

13. Malarial Plasmodium. Systematic position, morphology, development cycle. Laboratory diagnostics, prevention.

14. Toxoplasma. Systematic position, morphology, development cycle. Diagnostics, prevention.

15. Liver fluke. Systematic position, morphology, development cycle. Laboratory diagnostics, prevention.

16. Pulmonary fluke. Systematic position, morphology, development cycle. Laboratory diagnostics, prevention.

17. Cat fluke. Systematic position, morphology, development cycle. Laboratory diagnostics, prevention.

18. Lanceolate fluke. Systematic position, morphology, development cycle. Laboratory diagnostics, prevention.

19. Pork tapeworm. Systematic position, morphology, development cycle. Laboratory diagnostics, prevention. The concept of cysticercosis.

20. Bull tapeworm. Systematic position, morphology, development cycle. Laboratory diagnostics.

21. Dwarf tapeworm. Systematic position, morphology, development cycle. Laboratory diagnostics, prevention.

22. Echinococcus. Systematic position, morphology, development cycle. Diagnostics, prevention.

23. Ascaris human. Systematic position, morphology, development cycle. Laboratory diagnostics, prevention.

24. Pinworm for children. Systematic position, morphology, development cycle. Laboratory diagnostics, prevention.

25. Trichinella. Systematic position, morphology, development cycle. Laboratory diagnostics, prevention.

26. Ixodid ticks. systematic position. Morphology, development, medical significance).

27. Argas ticks. systematic position. Morphology, development, medical significance.

28. Acne gland and scabies itch. Their systematic position, morphology, development, medical significance.

29. Mosquitoes. systematic position. Morphology, development, medical significance. Differences between common and malarial mosquitoes.

30. Lice and fleas. systematic position. Morphology, development, medical significance.

31. Methods of asexual and sexual reproduction of organisms. Examples.

32. Parthenogenesis and sexual process. Similarities and differences between the sexual process of prokaryotes and eukaryotes.

33. Sexual dimorphism and its hormonal conditioning. The role of sexual selection in fixing secondary sexual characteristics.

34. Ovogenesis. The structure of female germ cells.

35. Spermatogenesis. The structure of male germ cells.

36. Fertilization. Phases and forms of fertilization. Concept of IVF.

37. Embryogenesis. Stages and methods of crushing.

38. Gastrulation. Methods of gastrulation.

39. Organogenesis. The concept of axial organs and the sequence of their laying.

40. Histogenesis. Derivatives of ectoderm, endoderm, mesoderm and mesenchyme.

41. Dangerous periods of embryogenesis. The concept of teratogenic factors and their classification.

42. Methods of postembryonic development and their examples. Postnatal period of human development.

43. Hormones of the endocrine glands, affecting the growth and development of the body.

44. Stress. phases of its development. Hormones stress - reactions.

45. Hypotheses of body aging.

46. Evolution of the dentition.

47. Interaction of allelic genes.

48. Interaction of non-allelic genes. Complementarity and Its Examples.

49. Epistasis: dominant and recessive. Examples.

50. Polymeria: cumulative and non-cumulative. Examples.

51. Pleiotropy. Penetrance. Examples.

52. The effect of position, genocopy, phenocopy and their significance in medicine.

53. Mechanisms of inheritance of sex. The concept of homo- and heterogametic sex. Sex-linked traits. Examples.

54. Systems for determining blood groups of the human body. The concept of the Rh factor and Rh conflict.

55. Chromosomal diseases associated with non-disjunction of sex chromosomes.

56. Chromosomal diseases associated with non-disjunction of autosomes. Causes and consequences of their occurrence.

57. Genetic diseases. Their classification, causes and consequences.

58. Phenotypic variability. reaction rate. Variation series and variation curve. The average value of the variation series.

59. Genotypic variability. Forms, Causes and Effects.

60. Populations. Properties and criteria of populations. ideal populations. Hardy–Weinberg law.

61. Environmental factors. Adaptations of organisms to environmental factors. Ecological groups of people and their adaptive features. Laws of Allen, Gloger and Bergman.

62. Chronobiology. The concept of synchronization and desynchronization of rhythms. The role of external and internal factors in maintaining daily and seasonal biorhythms of the human body.

63. The main stages of anthropogenesis. The most ancient, ancient and modern people and their ecological and homophysiological characteristics.

64. Hypotheses of the origin of man. Similarities and differences between humans and animals.

Вопросы обсуждены на заседании кафедры медицинской биологии с курсом микробиологии и вирусологии. Протокол № 10 от «04» марта 2024 года.

Зав. кафедрой медицинской биологии с курсом микробиологии и вирусологии

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