

Документ подписан простой электронной подписью
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Diagnostic testing

Discipline "Human Genetics"

Term 5

Curriculum	31.05.01
Specialty	General Medecine
Form of education	Full-time
Designer Department	Morphology and Physiology
Graduate Department	Internal Diseases

Section 1. (Term 5)

Competence	Task	Answers	Type of complexity
GPC-4.2 GPC-4.3 GPC-5.2 GPC-7.2 PC-1.1 PC-9.1 PC-9.2 PC-10.1	<i>Choose one correct answer:</i> 1. According to Mendel's second law genotypic ratio of is	1) 1:1; 2) 1:2:1; 3) 3:1; 4) 9:3:3:1;	low
GPC-4.2 GPC-4.3 GPC-5.2 GPC-7.2 PC-1.1 PC-9.1 PC-9.2 PC-10.1	<i>Choose one correct answer:</i> 2. After monohybrid cross F2 generation will have genotypic ratio of	1) 1:2:1; 2) 3:1; 3) 9:3:3:1; 4) 1:1;	low
GPC-4.2 GPC-4.3 GPC-5.2 GPC-7.2 PC-1.1 PC-9.1 PC-9.2 PC-10.1	<i>Choose one correct answer:</i> 3. Genotypic ratio of 9: 3: 3: 1 corresponds to	1) monohybrid cross with complete dominance; 2) monohybrid cross with incomplete dominance; 3) dihybrid cross with complete dominance; 4) dihybrid cross with incomplete dominance.	low
GPC-4.2 GPC-4.3 GPC-5.2 GPC-7.2 PC-1.1 PC-9.1 PC-9.2 PC-10.1	<i>Choose one correct answer:</i> 4. The chromosomal theory of inheritance was discovered by American geneticist	1) T. Morgan; 2) G. Mendel; 3) A. Weismann; 4) C. Correns.	low
GPC-4.2 GPC-4.3 GPC-5.2 GPC-7.2 PC-1.1 PC-9.1 PC-9.2 PC-10.1	<i>Choose one correct answer:</i> 5. Gene is:	1) protein region; 2) a species unit; 3) a unit of hereditary information; 4) part of the genome.	low
GPC-4.2 GPC-4.3 GPC-5.2 GPC-7.2 PC-1.1 PC-9.1 PC-9.2 PC-10.1	<i>Choose one correct answer:</i> 6. All genes located on the same chromosome stay together and form:	1) clutch; 2) allele; 3) linkage group; 4) allelic group.	medium

GPC-4.2 GPC-4.3 GPC-5.2 GPC-7.2 PC-1.1 PC-9.1 PC-9.2 PC-10.1	<i>Choose one correct answer:</i> 7. Structure of DNA was discovered by:	1) C. Darwin and Wallace 2) M. Schleiden and T. Schwann 3) J. Watson and F. Crick 4) D. I. Mendeleev	medium
GPC-4.2 GPC-4.3 GPC-5.2 GPC-7.2 PC-1.1 PC-9.1 PC-9.2 PC-10.1	<i>Set up a correspondence of:</i> 8. Organism with genotype: 1. AABBCc 2. AABbCc. 3. AABBCc	The number of gamete types: в) 1 а) 4 б) 2 г) 3	medium
GPC-4.2 GPC-4.3 GPC-5.2 GPC-7.2 PC-1.1 PC-9.1 PC-9.2 PC-10.1	<i>Choose one correct answer:</i> 9. Parents who have normal hearing (dominant trait) have a deaf child. The genotype of the parents corresponds:	1) AA x aa; 2) Aa x aa; 3) Aa x Aa; 4) AA x BB.	medium
GPC-4.2 GPC-4.3 GPC-5.2 GPC-7.2 PC-1.1 PC-9.1 PC-9.2 PC-10.1	<i>Choose one correct answer:</i> 10. The recessive hemophilia gene is located on the X chromosome. The father is hemophilic, the mother is not hemophilic (homozygous for this trait). The probability of having sons with hemophilia is	1) 75% 2) 50% 3) 25% 4) 0 %	medium
GPC-4.2 GPC-4.3 GPC-5.2 GPC-7.2 PC-1.1 PC-9.1 PC-9.2 PC-10.1	<i>Choose one correct answer:</i> 11. Find the complementary strand of the DNA molecule for G-C-T-A-A-T-C-C-G	1) C-G-A-U-T-A-G-G-C 2) C-T-A-U-U- G-G-C-G 3) G-C-A-T-T-A-G-G-C 4) C-G-A-T-T-A-G-G-C	medium
GPC-4.2 GPC-4.3 GPC-5.2 GPC-7.2 PC-1.1 PC-9.1 PC-9.2 PC-10.1	<i>Choose one correct answer:</i> 12. Nitrogenous bases of DNA are:	1) adenine, guanine, ribose, cytosine 2) adenine, guanine, thymine, cytosine 3) adenine, guanine, ural, cytosine 4) adenine, thymine, ribose, cytosine	medium
GPC-4.2	<i>Choose all correct answers:</i>	1) complete;	medium

GPC-4.3 GPC-5.2 GPC-7.2 PC-1.1 PC-9.1 PC-9.2 PC-10.1	13. Genetic linkage can be:	2) incomplete; 3) fractional.	
GPC-4.2 GPC-4.3 GPC-5.2 GPC-7.2 PC-1.1 PC-9.1 PC-9.2 PC-10.1	<i>Choose all correct answers:</i> 14. While complementary interaction of genes, a new quality of the trait will appear in individuals with the genotype:	1) aaBB. 2) Aabb. 3) AaBb.	medium
GPC-4.2 GPC-4.3 GPC-5.2 GPC-7.2 PC-1.1 PC-9.1 PC-9.2 PC-10.1	<i>Choose all correct answers:</i> 15. Mutations can cause:	1) hereditary diseases; 2) spontaneous abortions; 3) congenital malformations; 4) oncological diseases.	medium
GPC-4.2 GPC-4.3 GPC-5.2 GPC-7.2 PC-1.1 PC-9.1 PC-9.2 PC-10.1	<i>Set up a correspondence of:</i> 16. Types of genetic variability: 1. Mutation. 2. Recombination.	Examples: 2) translocation; 1) crossing over; 3) DNA repair.	high
GPC-4.2 GPC-4.3 GPC-5.2 GPC-7.2 PC-1.1 PC-9.1 PC-9.2 PC-10.1	<i>Complete the sentence:</i> 17. Antioncogenes is	1) genes that cause unregulated cell division; 2) genes that control metabolism; 3) inactive genes for cell growth and differentiation; 4) genes that produse suppressor protein; 5) altered proto-oncogenes..	high
GPC-4.2 GPC-4.3 GPC-5.2 GPC-7.2 PC-1.1 PC-9.1 PC-9.2 PC-10.1	<i>Complete the sentence:</i> 18. The mother has blood type O, the child has blood type B. A father can't have the following blood type genotypes	1) $I^A I^A$ and $I^B i^0$; 2) $I^A I^A$ and $i^0 i^0$; 3) $i^0 i^0$ and $I^A I^B$; 4) $I^A I^A$ and $I^B I^B$.	high

<p>GPC-4.2 GPC-4.3 GPC-5.2 GPC-7.2 PC-1.1 PC-9.1 PC-9.2 PC-10.1</p>	<p><i>Choose one correct answer:</i></p> <p>19. Nucleic acids contain atoms:</p>	<p>1) C, H, O, N, P 2) C, H, O, N, S 3) C, H, O, P, S 4) C, H, N, P, S</p>	<p>high</p>
<p>GPC-4.2 GPC-4.3 GPC-5.2 GPC-7.2 PC-1.1 PC-9.1 PC-9.2 PC-10.1</p>	<p><i>Choose all correct answers:</i></p> <p>20. According to a social point of view, medical genetic counseling performs the following functions:</p>	<p>1) explanation in an accessible form of the meaning of medical genetic prognosis; 2) assistance in making the right decision about further childbearing; 3) help in implementing the right solution</p>	<p>high</p>