

Diagnostic testing  
Discipline "Biology"  
Term 2

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

Section 1. (Term 2)

Competence	Task	Answers	Type of complexity
GPC-5.2 GPC-5.5	<i>Choose the correct answers:</i>  1. List the mechanical parts of the microscope:	1) arm; 2) eyepiece tube; 3) eyepiece; 4) nosepiece; 5) objective lens.	low
GPC-5.2 GPC-5.5	<i>Choose one correct answer:</i>  2. What position do carbohydrates occupy in the plasmalemma?	1) are contained only on the exterior surface; 2) are evenly distributed in both layers; 3) in some membranes they are located outside, and in others – inside; 4) do not occur in the plasmalemma.	low
GPC-5.2 GPC-5.5	<i>Choose all correct answers:</i>  3. The biological cell membranes provide:	1) compartmentalization; 2) barrier function; 3) formation of ribosomes and polysomes; 4) the transport of substances; 5) reception	low
GPC-5.2 GPC-5.5	<i>Choose one correct answer:</i>  4. Enzymes needed for DNA replication:	1) helicase; 2) endonuclease; 3) primase; 4) reverse transcriptase.	low
GPC-5.2 GPC-5.5	<i>Choose one correct answer:</i>  5. A solution of unknown concentration was added to a human blood sample. As a result, the sample turned red due to the destruction of red blood cells. What solution was used in this experiment?	1) hypertonic 2) anisotonic 3) hypotonic	low
GPC-5.2 GPC-5.5	<i>Choose all correct answers:</i>  6. The chromosome has two chromatids in periods of:	1) prophase of mitosis; 2) metaphase of mitosis; 3) anaphase of meiosis I; 4) telophase of mitosis.	medium
GPC-5.2 GPC-5.5	<i>Put the correct sequences of:</i>  7. Cell's periods life cycle:	1) mitosis; 2) G1-period; 3) S- period; 4) G2- period.	medium
GPC-5.2 GPC-5.5	<i>Choose one correct answer:</i>	1) gynogamones I; 2) androgamones I; 3) gynagomones II (fertilizins); 4) androgamones II	medium

	8. Hormones that suppress the motility of spermatozoa are:	(antifertilisins).	
GPC-5.2 GPC-5.5	<i>Choose one correct answer:</i>  9. The synkaryon stage of mammals is characterized by:	1) different sizes of pronuclei; 2) simultaneous DNA synthesis; 3) contact of pronuclei; 4) the beginning of mitosis	medium
GPC-5.2 GPC-5.5	<i>Choose one correct answer:</i>  10. The doctrine of gradual transformation of one species into another by descent with modification through many generations is:	1) preformism; 2) epigenesis; 3) transformism; 4) vitalism	medium
GPC-5.2 GPC-5.5	<i>Choose all correct answers:</i>  11. The genetic regulation of ontogenesis in vertebrates is regulated by:	1) gene repression; 2) gene derepression; 3) derepression and repression of genes.	medium
GPC-5.2 GPC-5.5	<i>Choose all correct answers:</i>  12. During cloning, the development of the embryo is regulated by genes of:	1) spermatozoon; 2) egg cell; 3) somatic cells.	medium
GPC-5.2 GPC-5.5	<i>Set up a correspondence of:</i>  13. Malformations: 1. Hereditary.  2. Non-hereditary.	a) germline mutations; r) disruption of gene functions;  б) mutations in blastomeres; д) violation of the laying of organs.	medium
GPC-5.2 GPC-5.5	<i>Choose all correct answers:</i>  14. A genetic variant or subtype of a microorganism with specific physiological and biochemical features is called	1) specie; 2) breed; 3) sort; 4) strain	medium

GPC-5.2 GPC-5.5	<p><i>Set up a correspondence of:</i></p> <p>15. Arthropod's organ systems.</p> <p>1. Circulatory system. 2. Excretory system. 3. Digestive system. 4. Respiratory system.</p>	<p>Features:</p> <p>1) The blood is enclosed in the vessels and the heart while circulating 2) three sections of the digestive tube; 3) gills, lungs, trachea; 4) modified metanephridia; 5) Malpighian vessels;</p>	medium
GPC-5.2 GPC-5.5	<p><i>Choose one correct answer:</i></p> <p>16. The living matter of the earth's biosphere forms</p>	<p>1) a thin layer on the surface of the planet; 2) the pellicle of life; 3) the condensation of life; 4) the islands of life.</p>	high
GPC-5.2 GPC-5.5	<p><i>Choose one correct answer:</i></p> <p>17. The biotic factors are</p>	<p>1) UV radiation 2) parasitism 3) oxygen content in the environment 4) the climate factors</p>	high
GPC-5.2 GPC-5.5	<p><i>Choose one correct answer:</i></p> <p>18. Organisms that are tolerate a wide range of environments are</p>	<p>1) homeothermic 2) stenobiont 3) poikilothermic 4) eurybiont</p>	high
GPC-5.2 GPC-5.5	<p><i>Choose all correct answers:</i></p> <p>19. How does the human skeleton differ from the skeleton of mammals?</p>	<p>1) spine without bends; 2) arched foot; 3) spine S - shaped curved; 4) the facial part of the skull prevails over the brain; 5) the chest is compressed in the dorsal-abdominal direction; 6) the chest is compressed from the sides.</p>	high
GPC-5.2 GPC-5.5	<p><i>Choose one correct answer:</i></p> <p>20. Any population or taxon which have the potential for a particular or total occupation of given free of underutilized home habitats or position in the general economy of nature is</p>	<p>1) race 2) adaptive type 3) ethnos 4) nation</p>	high