Документ подписан простой электронной подписью

Информация о владельце:

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Должность: ректор

**Diagnostic testing** Discipline "Biochemistry" Term 4

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31.05.01 General medicine

Specialty General medicine Form of education Full-time

Designer Department Morphology and physiology

Graduate Department Internal diseases

Competence	Task	Answers	Type of complexity
GPC -5.4	Indicate one correct answer	1). the uniqueness of the primary	low
	1. The diversity of proteins is	structure of a protein	
	due to:	2). the ability of radicals of amino acid	
		residues to interact with other classes of	
		compounds	
		3). the ability of proteins to give	
		coloured reactions	
		4). stabilisation of the protein structure	
		by weak non-covalent bonds	
		5). the property of proteins to change	
		their conformation	
GPC-5.4	Indicate one correct answer	1. forëmation of covalent bonds	low
	2. Irreversible specific	between the inhibitor and the enzyme	
	inhibition of an enzyme is	2. free dissociation of the inhibitor from	
	caused by	the enzyme	
		3. formation of hydrogen bonds	
		between the inhibitor and the enzyme.	
		4. formation of ionic bonds between the	
		inhibitor and the enzyme	
		5. binding of the substrate to the active	
		center of the enzyme.	
GPC-5.4	Indicate one correct answer	1. uric acid	low
	3. Which organic compound	2. orotic acid	
	has a purine ring in its	3. uracil	
	structure?	4. cytosine	
		5. thymine	
GPC-5.4	Indicate one correct answer	1) oxaloacetate	low
	4.One CTC turnover results	2) pyruvate	
	in oxidation and	3) acetyl-CoA	
	decomposition to CO2 and	4) lactate	
	H2O	5) glucose	
GPC-5.4	Indicate one correct answer	1) fibre reserve	low
	5.Muscle glycogen is used	2) a source of substrates for fatty acid	
	exclusively as:	synthesis	
		3) blood glucose reserve	
		4) "local" glucose reserve	

		5) glucose reserve for brain cells	
GPC-5.4	Indicate all correct answer 6.The signs of vitamins are:	<ol> <li>are used for plastic purposes</li> <li>are not synthesised in the body</li> <li>does not fulfil an energetic function</li> <li>does not fulfil a plastic function</li> <li>are an important energy substrate</li> </ol>	average
GPC-5.4	Indicate all correct answer 7. The second phase (non-oxidative reactions) of the pentose phosphate pathway involves the formation of sugars that can go directly to glycolysis.		average
GPC-5.4	Indicate all correct answer 8. The transport form of cholesterol are:	<ol> <li>very low density lipoproteins</li> <li>chylomicrons</li> <li>low density lipoproteins</li> <li>intermediate density lipoproteins</li> <li>high density lipoproteins</li> </ol>	average
GPC-5.4	Indicate all correct answer  9. Ketone bodies include:	1) acetone 2) acetyl-CoA 3) acetoacetyl-CoA 4) hydroxybutyrate 5) acetoacetate	average
GPC-5.4	Indicate all correct answer 10. Ammonia is formed during:	1) creatine synthesis 2) lysine decarboxylation 3) deamination of amino acids 4) reductive amination of keto acids 5). amide hydrolysis	average
GPC-5.4	Indicate all correct answer  11. Select items that reflect the role of methionine in metabolism.	1) is involved in the initiation of the translation process. 2) participates in gluconeogenesis 3) donor of methyl group in the synthesis of a number of compounds 4) donor of acetyl group in the neutralisation of hormones and drugs. 5) a source of sulphur in the synthesis of adrenaline.	average
GPC-5.4	Indicate all correct answer  12.Choose the answers that reflect the role of the liver in carbohydrate metabolism.	1) the liver produces enzymes necessary for the digestion of polysaccharides 2) participates in maintaining blood glucose homeostasis 3) produces hormones that regulate blood glucose concentrations 4) glycogen is synthesised in liver cells 5) the liver synthesises glucose from non-carbohydrate substrates through gluconeogenesis.	average

GPC-5.4	Indicate all correct answer	1) thromboxane	average
010 5	13. Specify the physiological	2) prostacyclin	average
	anticoagulants	3) heparin	
	annougulants	4) antithrombin 3	
		5) thrombin	
GPC-5.4,	Indicate all correct answer	1) B12 (cobalmin)	average
GPC 5.8	14. Deficiency of which	2) B6 (pyridoxine)	average
UFC 3.8	vitamins can manifest	3) Bs (folic acid)	
	anaemia	4) PP (nicotinic acid)	
	anacima	5) H (biotin)	
GPC-5.4	Indicate all correct answer	1) volumoreceptors	average
GPC-3.4	15. Vasopressin is secreted in	2) thermoreceptors	average
	response to signals from the	3) mechanoreceptors	
	response to signals from the	4) osmoreceptors	
GPC-5.4	Indicate all correct answer	5) proprioreceptors  1) maintanance of angetic pressure of	high
UFC-3.4	16. The functions of plasma	1) maintenance of oncotic pressure of blood	Ingn
	albumin are as follows		
	albumin are as follows	<ul><li>2) bilirubin transport</li><li>3) blood coagulation</li></ul>	
		,	
		4) transport of steroid hormones	
GPC-5.4	Indicate all correct answer	5) regulation of the blood-brain barrier	la i alla
GPC-3.4		1. glutamate	high
	17. The following amino	2. glutamine	
	acids are required for the	3. aspartate	
	synthesis of the purine	4. glycine	
	nitrogen ring:	5. tyrosine	
GPC-5.4	Finish the sentence		high
GPC 5.8	18. Ketoacidosis is		
GPC-5.4	Select the correct	1) a,b	high
GPC-5.8	combination of answers	2) a,c	
	19.Detoxification of bilirubin	3) a,d	
	involves	4) a,c,d	
	a) hydroxylation		
	b) glucuronidation		
	c) acetylation		
	d) sulphation		
GPC-5.4,	Finish the sentence		high
GPC 5.8	20. The detoxifying function		
	of the transformation reaction		
	liver (phase 1) is to give the		
	hydrophobic xenobiotic		
	molecule		