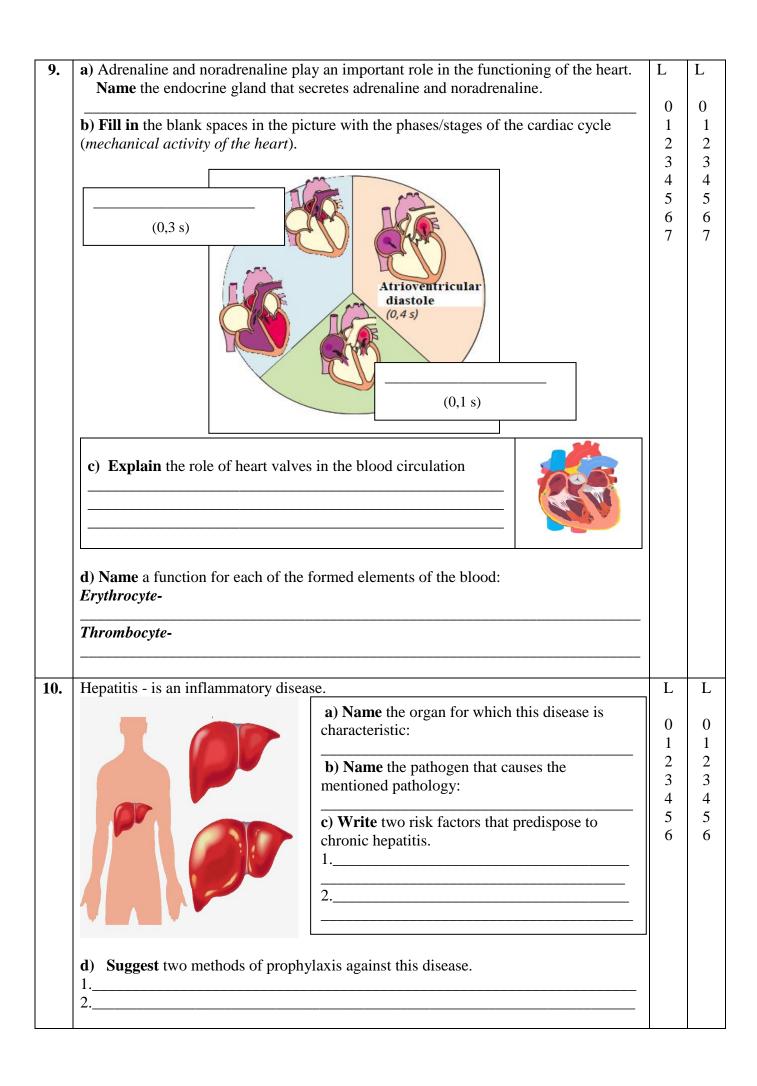
No	ITEMS	Sc	ore
	Diversity in the living world and evolutionary characteristics of the living wor	ld	
1.	Analyse the images below. Fill in the blank spaces in the table with the names of the	e L	L
	taxons to which the species represented in the image belong.		
		0	0
		1	1
		2	2
		3	3
		4	4
		5	5
		6	6
	Species		
	Species		
	Linden		
	( Tilia cordata L) Hoopoe ( Upupa epops)		
	( Cpupa epops)	_	
	Class		
	D. J.	-	
	Phylum		
	Kingdom	1	

2.	Complete the table with the differences between Monocotyledons class and Dicotyledons class.			L	L	
	Monocotyledons	Criteria	Dicotyledons	0	0	
		Root system type		$\begin{bmatrix} 1 \\ 2 \\ 3 \\ 4 \end{bmatrix}$	1 2 3 4	
		Innervation of the leaf		5	5	
		Flower structure	Pentamer or tetramer			
3.	a) <b>Describe</b> the role of the flo	ower in the evolution of angio	osperms.	L 0	L	
	b) Write two other features of angiosperms, which demonstrates their superiority over conifers.  1					
	c) Provide two examples of idioadaptation of the conifers to low temperatures.  1					
1.	a) Complete the table with the distinctive features of the birds.					
	Structural features of the respiratory system	Peculiarities of the skeleton	Structural features of the excretory system	0 1 2 3	1 2 3	
	1.	1.	1.	4 5 6	4 5 6	
	<ul><li>2.</li><li>b) Name an aromorphosis that led to the appearance of homeothermia in birds.</li></ul>					
		at led to the appearance of hol	meonicinna ni onus.			

Vital systems and processes							
5.	a) Write the essence of the definitions for the following biological terms:			L	L		
	Hormone-			0	0		
	Metabolism-			2 3 4	2 3 4		
6.	Analyse the image below.			L	L		
	c) Name the endocrino	2 3		a) Name the organ system represented in the picture.  b) Write down the names of the structures in the drawing, according to the numbers in the image.  1		L 0 1 2 3 4 5 6 7 8	0 1 2 3 4 5 6 7 8
7.	a) Complete the table with the name of the glands, a secreted product and a function performed by the secreted product.					L 0	L 0
	Organ	The name of the organ	The se		Role / Function of the product	1 2 3	1 2 3
	Endocrine gland	Thyroid				5 4 5 6 7	5 6 7
	Exocrine gland				Moisturizing and decomposition of food	8 9 10	8 9 10

	В	
Pancreas	1. Addison disease	
Pituitary	2. Diabetes	
Thyroid	3. Basedow-Graves disease	
Adrenal glands	4. Acromegaly	
c) <b>Argue</b> the importance of proper nu	trition in the prevention of diabetes.	
pancreas is to secrete: glucagon, insul secrete: trypsin, pancreatic lipase, pan a) Complete the table with the name the pancreas.	of the hormone secreted by the endocrine cells of	0 1 2 3
Pancreatic cells	Secreted hormone	5
Alpha cells		6
1		8
Beta cells		9
Beta cells	s of the enzymes secreted by the pancreas.	9
Beta cells	s of the enzymes secreted by the pancreas.  Enzyme	9
Beta cells  b) Complete the table with the names		9
Beta cells  b) Complete the table with the names  Types of enzymes		9
Beta cells  b) Complete the table with the names Types of enzymes  Proteolytic enzymes	Enzyme	9
Beta cells  b) Complete the table with the names Types of enzymes  Proteolytic enzymes  Lipolytic enzymes  Glycolytic enzymes	Enzyme	9



	Basis of genetics and organism improvement/genetic engineering							
11.	Write the essence of the definitions for the following biological terms:	L	L					
	Variability							
		0	0					
		1	1					
	Replication-	2	2					
	•	3	3					
		4	4					
12.	Solve the problem:	L	L					
120	A colorblind man with straight hair, married a woman with wavy hair and normal							
	eyesight (diheterozygous). It is known that color blindness and straight hair are	0	0					
	recessive traits. Color blindness is a trait linked with the X chromosome, while the hair		1					
	shape is an autosomal trait.	2	2					
	<b>Determine</b> the probability of having a colorblind daughter with straight-haired in this	3	3					
	family (taking into consideration the total number of children).	4	4					
	Taining (taking into consideration the total number of chitaren).	5	5					
		6	6					
		7	7					
		8	8					
		9	9					
		10	10					
		11	11					
	<u> </u>							
1			1					

