



SAMAGRA SHIKSHA, KERALA FIRST TERMINAL EVALUATION 2022-23

BIOLOGY

Time : 11/2 hrs. STD-IX **Total Score : 40** Instructions: 15 minutes is given as cool off time. This time is to be used for reading the . question paper. Attempt the questions according to the instructions. Keep in mind the score and time while answering the questions. (5x1=5)Answer any 5 questions from 1 to 6. Each question carries 1 score. 1. (1)Find the odd one. Write the common feature of others. Chlorophylla, Chlorophyllb, Carotene, Xanthophyll (1)2. Identify the word pair relation in (a) and fill in the blank in (b). (a) Albumin : Regulates blood pressure (b) : Helps in defence Plants cannot store glucose, the product of photosynthesis as such. Which of the following is the 3. (1)reason for this? Glucose is soluble in water. Glucose is insoluble in water. Glucose can be converted into other forms. Glucose is an unstable compound. Identify and name the fluid mentioned in the given statement. (1)4. "When the heart beats, this fluid helps to reduce friction between the membranes" Identify and name the teeth labelled as 'A' and 'B'. (1)5.



A

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- 6. Identify the enzymes involved in the digestion of proteins.
 - · Salivary amylase and Pancreatic amylase.
 - Pepsin and Trypsin.
 - Gastric lipase and Pancreatic lipase:
 - Salivary amylase and Pancreatic lipase.

Answer any 6 questions from 7 to 13. Each question carries 2 score.

Choose the suitable ones from the given hints and complete the illustration related to the phase of photosynthesis.
 (2)

Hints:

9.



8. Observe the given figure related to digestion and answer the following questions.



a) Which process does the figure represent?	(1)
b) What is the significance of this process?	(1)
As shown in the model, make suitable pairs using the information given in the box.	(2)
Model: Tubers - Starch	

Starch, Oilseeds, Legumes, Protein, Fats, Tubers, Fructose, Sucrose, Fruits, Sugarcane

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(6x2=12)

(1)

10. Observe the given diagram related to the absorption of substances into lacteals and answer the questions.

	uons,			
		Higher concentration	Lower concentration	
	Nutrients			
	a) Identify the p	rocess.		(1)
		ents are absorbed through this p	rocess?	(1)
1.		ement with examples.		(2)
		major role in the mitigation	of natural disasters."	
2.	Write the steps of sw	vallowing food in correct order		(2)
	• Uvula closes t	he nasal cavity that opens to the	pharynx.	
	Tongue comp	resses the food into balls with the	ne help of the palate.	
	Posterior part	of the tongue allows food to me	ove over the epiglottis into the oes	ophagus.
	• Trachea rises	up and is closed by Epiglottis.		
3.	Given indicators a	re related to a specific part of	the wall of heart. Analyse them	and answer th
	questions.			
	• Functions like a			
	 Located on the r 			
		part of the heart is mentioned in	n the hints?	(1)
	b) What i	is its function?		(1)
Ansv	wer any 5 questions	from 14 to 20. Each question	on carries 3 score each.	(5x3=15)
14.	Analyse the stateme	ent and answer the questions.		
	"Phot	tosynthesis in Ocean ecosyste	em plays an important role in t	the
		existence of the liv	ing world."	
	a) Who are the chi	ef producers in the ocean ecosy	/stem?	(1)

5

15. Observe the illustration related to digestive system and answer the questions given below.



- a) Name the parts 'A' and 'B'.
- b) Mention the role of 'A' and 'B' in the digestion of fat.

16. Observe the flow chart of double circulation in man and complete it suitably.



 Observe the illustration showing the chemical reactions in the process of photosynthesis and answer the questions.



18. Arrange the columns B and C according to column A.

А	В	С
Salivary glands	Trypsin	Converts protein into peptides.
Gastric glands	Salivary amylase	Converts maltose into glucose
Pancreas	Pepsin	Converts starch into maltose
/		Converts protein into peptones

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(3)

(1)

(2)

(3)

19. A poster displayed in a primary health center is shown below. Observe it and answer the questions.



b) Although different in external structure, teeth are similar in their internal structure.
 Justify the statement with two examples.

- Features of different types of blood vessels are given. Select the suitable ones from them and complete the following table. (3)
 - · Carries blood to the heart.
 - Wall is formed of a single layer of cells.
 - Blood flows with high speed and high pressure.
 - Thick walls.
 - Minute pores on the walls.
 - Valves are seen inside.

Vein	Artery	Capillaries
•	•	
•		

Answer any 2 questions from 21 to 23. Each question carries 4 score.

(2x4=8)

(1)

21. Redraw the diagram of chloroplast and answer the questions.



For drawing the diagram

a) Name and label the parts according to the following hints.

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(1)

Hints:

22.

(i) The part where synthesis of glucose takes place.	(1)
(ii) The part where dissociation of water takes place.	(1)
b) Which are the phases of photosynthesis that take place in parts (i) and (ii)?	(1)
Write the reason for each of the following.	
(a) The blood reaching the left atrium has more oxygen.	(1)
(b) The blood doesn't flow back to the right atrium when the right ventricle contracts.	(1)
(c) The blood flowing through the Venacava has more carbon dioxide.	(1)
(d) Blood plasma has a role in the clotting of blood.	(1)

23. Observe the figure of villus and answer the questions given below.



a) Name the parts labelled as 'A' and 'B'.	(1)
b) Which nutrients are absorbed into 'A'?	(1)
c) How far is the structure of villus suitable for the absorption of substances?	(2)