



INDIAN SCHOOL SOHAR
PERIODIC TEST 1 (2023-24)
SCIENCE

SET: 1

CLASS: VII
DATE: 25 /05/2023

MAX. MARKS: 20
TIME: 40 MINUTES

General Instructions:

- This question paper consists of 10 questions.
- **Section A** consists of 6 objective-type questions carrying 1 mark each.
- **Section B** consists of one very short question carrying 2 marks, one short answer type question carrying 3 marks, and one long answer type question carrying 5 marks.
- **Section C** consists of a case-based unit of assessment of 4 marks with sub-parts.

SECTION – A

Select and write one most appropriate option out of the four options given for each of the questions 1 – 6.

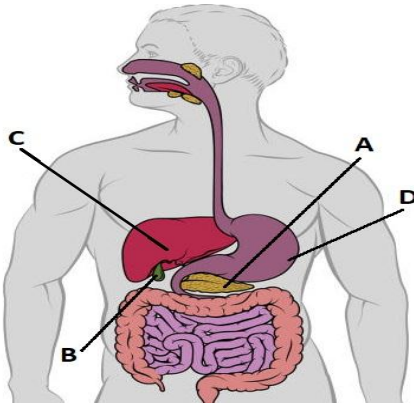
Q. No.	Questions	Marks
1	Digestive juices present in the stomach convert: (a) proteins into simpler substances. (b) complex sugars into simple sugars. (c) starch into simple sugars. (d) fats into fatty acids.	1
2	Which of the following statements is NOT correct regarding parasites? (a) In a parasite, the host can be a green plant or an animal. (b) Parasites live on hosts where the parasite is benefited and the host is harmed. (c) Amarbel is a very common plant parasite. (d) Parasites can always perform photosynthesis.	1
3	A list of food items numbered 1 to 4, is provided below: 1. a small quantity of chewed rice 2. a slice of bread 3. 5 mL of glucose solution 4. a bowl of cooked rice Which of the above will give a blue-black color when tested with iodine? (a) 1 and 4 (b) 2 and 3 (c) 2 and 4 (d) 1 and 3	1
4	Which of the following helps the opening and closing of stomata in leaves? (a) cytoplasm (b) guard cells (c) cell membrane (d) vacuole	1
Assertion and Reason		
5	Assertion (A): Algae can prepare their own food by photosynthesis. Reason (R): Algae are heterotrophic organisms. (a) Both A and R are true and R is the correct explanation of A. (b) Both A and R are true and R is not the correct explanation of A. (c) A is true and R is false. (d) A is false and R is true. Assertion (A): The food that remains undigested and unabsorbed enters into the	1

6	<p>large intestine.</p> <p>Reason (R): The large intestine is wider and shorter than the small intestine.</p> <p>(a) Both A and R are true and R is the correct explanation of A.</p> <p>(b) Both A and R are true and R is not the correct explanation of A.</p> <p>(c) A is true but R is false.</p> <p>(d) A is false but R is true.</p>	1
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SECTION – B

7	<p>Give reason:</p> <p>(a) We get instant energy from glucose.</p> <p>(b) Villi are ideal sites for the absorption of food.</p>	2
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8	State three differences between autotrophs and heterotrophs.	3
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9	<p>Observe the figure given aside and answer the following questions:</p> <p>(a) Name the parts A, B, C, and D.</p> <p>(b) What are the secretions of labeled parts A and C?</p> <p>(c) State the function of labeled part C.</p>		5
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SECTION – C

10	<p>Rita's mother prepared pickles using carrots, vinegar, and spices. The pickles were stored in a glass jar with an air-tight lid and placed outside on a shelf in the sun to allow the flavors to develop. After three weeks, Riya noticed that there were white patches on the surface of the pickles.</p> <p>(a) Name the organism that contributes to the white patches on the pickle.</p> <p>(b) What is the mode of nutrition of the organism that grew on the pickles? How did they obtain their nutrition from pickles?</p> <p>(c) Suggest one way in which this organism benefits us.</p> <p style="text-align: center;">OR</p> <p>(c) List any two conditions necessary for the growth of this kind of organism in articles like leather, clothes, etc.</p>	4
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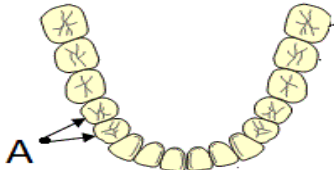
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SECTION – A

Select and write one most appropriate option out of the four options given for each of the questions 1 – 6.

Q. No.	Questions	Marks
1	Which of the following statements is correct regarding insectivorous plants? (a) They have both autotrophic and heterotrophic modes of nutrition. (b) They are completely heterotrophs. (c) They are generally found in phosphorus-deficient soil. (d) They cannot perform photosynthesis.	1
2	A list of food items numbered 1 to 4, is provided below: 1. a slice of bread 2. a bowl of cooked rice 3. 10 mL of sugar solution 4. a small quantity of chewed boiled potato Which of the above will NOT give a blue-black colour when tested with iodine? (a) 1 and 4 (b) 3 and 4 (c) 2 and 4 (d) 1 and 3	1
3	Which of the following word equations best describes the process of photosynthesis in green plants when sunlight and chlorophyll are present? (a) Carbon dioxide + Oxygen \longrightarrow Carbohydrate + Water (b) Carbohydrate + Oxygen \longrightarrow Carbon dioxide + Water (c) Carbon dioxide + Oxygen \longrightarrow Protein + Water (d) Carbon dioxide + Water \longrightarrow Carbohydrate + Oxygen	1
4	Observe the diagram of the arrangement of different types of teeth given below and identify the teeth labeled as A .  (a) Premolars (b) Canines (c) Incisors (d) Molars	1

Assertion and Reason:		
5	<p>Assertion (A): Parasites are dependent on other organisms for food.</p> <p>Reason (R): Parasites obtain nutrition from dead and decaying matter.</p> <p>(a) Both A and R are true and R is the correct explanation of A.</p> <p>(b) Both A and R are true and R is not the correct explanation of A.</p> <p>(c) A is true and R is false.</p> <p>(d) A is false and R is true.</p>	1
6	<p>Assertion (A): The inner wall of small intestine has a number of finger-like projections called villi.</p> <p>Reason (R): Small intestine receives secretions from the liver and the pancreas.</p> <p>(a) Both A and R are true and R is the correct explanation of A.</p> <p>(b) Both A and R are true and R is not the correct explanation of A.</p> <p>(c) A is true and R is false.</p> <p>(d) A is false and R is true.</p>	1
SECTION – B		
7	<p>Give reason:</p> <p>(a) Farmers who cultivate pulse crops like green gram, pea, etc. do not apply nitrogenous fertilizers during cultivation.</p> <p>(b) Plants containing coloured leaves also exhibit the process of photosynthesis.</p>	2
8	State three functions of the tongue in the human body.	3
9	<p>(i) Name any three glands and their secretions associated with the human digestive system.</p> <p>(ii) What are the end products of fats and proteins after their complete digestion in the small intestine?</p>	5
SECTION – C		
10	<p>A group of researchers were studying a lichen found growing in a forest area. They observed that the lichen is composed of two organisms. Researchers found that these two organisms are mutually beneficial to each other. The researchers were interested in understanding the nature of the relationship between these two organisms.</p> <p>(a) List the two organisms that the researchers identified in lichen.</p> <p>(b) How are these two organisms mutually beneficial to each other?</p> <p>(c) Name the heterotrophic mode of nutrition shown by lichen.</p> <p style="text-align: center;">OR</p> <p>(c) Name the chlorophyll-containing partner of lichen.</p>	4