



ANGEL'S PUBLIC SCHOOL

HALF YEARLY EXAMINATION

(SAMPLE PAPER)

SESSION 2026 – 27
SUBJECT : SCIENCE
GRADE – IV

TIME : 03 HRS

M.M:80

SECTION – A

A. Multiple choice questions.

(10x1=10)

1. **Assertion (A):** Polar bears and seals are well-adapted to live in the freezing polar regions.

Reason (R): They have a thick layer of fat called blubber under their skin to keep them warm in cold climates.

(a) Both Assertion (A) and Reason (R) are true, and Reason (R) is the correct explanation of Assertion (A).

(b) Both Assertion (A) and Reason (R) are true, but Reason (R) is not the correct explanation of Assertion (A).

(c) Assertion (A) is true, but Reason (R) is false.

(d) Assertion (A) is false, but Reason (R) is true.

2. _____ is when animals leave their habitat for a better climate.

(a) Hibernation

(b) Aestivation

(c) Migration

(d) Adaptation

3. _____ works with juices from the liver and pancreas.

(a) Large intestine

(b) Teeth

(c) Germs

(d) Small intestine

4. The food pipe is also known as:

(a) Incisors

(b) Pancreas

(c) esophagus

(d) Canines

5. _____ is a sticky, colorless film of bacteria on teeth.

(a) Cavity

(b) Plaque

(c) Scurvy

(d) Dentin

6. The arctic tern shows:

(a) Migration

(b) Hibernation

(c) Camouflage

(d) Echolocation

7. **Assertion (A):** Fishes can swim easily in water.

Reason (R): They have a streamlined body, gills for breathing, and fins for swimming.

(a) Both Assertion (A) and Reason (R) are true, and Reason (R) is the correct explanation of Assertion (A).

(b) Both Assertion (A) and Reason (R) are true, but Reason (R) is not the correct explanation of Assertion (A).

(c) Assertion (A) is true, but Reason (R) is false.

(d) Assertion (A) is false, but Reason (R) is true.

8. _____ have hollow bones filled with air sacs.

(a) Birds

(b) Ducks

(c) Frog

(d) Whales

9. Animals that can fly are called:

(a) Arboreal

(b) Aquatic

(c) Aerial

(d) Rodents

10. Animals that give birth to young ones are called:

(a) Mammals

(b) Insects

(c) Chrysalis

(d) Aquatic

B. Fill in the blanks

(8x1=8)

1. An egg shell is covered with as many as 17000____ pores.
2. ____ is capable of drinking water at temperatures that approach the boiling point.
3. Microbes which cause diseases....
4. Tadpole with a tail
5. Fish haveto live in the water.
6. The egg white is known as.....
7. Air enters and leaves the plant through ____.
8. Most ____ foods contain a lot of sugar, salt or fat.

C. State whether the following statements are true or false

(8x1=8)

- 1 A dragonfly has five stages in its life cycle.
- 2 The crown of tooth is covered with enamel.
- 3 Saliva hardens the food.
- 4 Proteins are energy –giving nutrients.
- 5 Milk teeth are 20 in numbers.
- 6 Some microbes are harmful.
- 7 Fish have fins and gills to live in water.
- 8 Pores in plants are called stomata.

D. Give one word answer to each–

(10x1=10)

1. Name a part which lies under the enamel of tooth.
2. Name a stage that comes in frog life cycle after egg.
3. Name the floating clump of frog eggs.
4. Where do female butterfly lay its eggs.
5. Which fruit is rich in gum–building vitamin C.
6. Name the animal whose shells look like rocks.
7. Which bird has the capability of drinking water at a high temperature?
8. What is the another name of food pipe?
9. Name a microbe.
10. Which substance helps to soften the food in mouth?

SECTION – B**E. Short answer questions. (Do any 7)**

(7x3=21)

1. Why is it necessary to chew food properly before swallowing it?
2. Name the five main nutrients.
3. How do the stomach help in digestion?
4. Write the function of iron and name its sources.
5. How are plants and animals dependent on each other?
6. What is the role played by Green leaves in the production of food?
7. What are arboreal animals?
8. Define caterpillar
9. Write some ill effects of junk food on our body.
10. Why plants are called producers?

F. Case based question.

(1x3=3)

During lunch, Rohan was in a hurry to go play with his friends. He quickly swallowed big bites of his apple and chewed his chapati poorly. Later in the afternoon, he complained of stomach pain and felt uneasy.

1. Why did Rohan get a stomach ache?
2. Name the first organ where the breakdown of the apple began?
3. What is the role of saliva in Rohan's mouth?

G. Long question– answers. (Do any 2)

(2x5=10)

- 1 What are the adaptive features of a cactus?
- 2 What are the stages of frog's life cycle?
- 3 How are mammals different from egg– laying animals?
- 4 Explain the different types of teeth.
- 5 How can we look after our teeth?

SECTION – C

H. Draw the following diagrams.

(2x5=10)

(a)

(b)