

GENIUS SCHOOL – SUMMATIVE ASSESSMENT 1

SUBJECT: SCIENCE

GRADE:7

TOTAL MARKS: 50

Instructions to exam:-

1. The following exam paper has 50 marks in total
2. Question 1 to 5 carry 1 mark each; answer all the following
3. Question 6 to 10 carry 3 marks each; answer all the following
4. Section B has options, you can attempt either of the given
5. Answer all the questions in section C and D.

SECTION-A

MARKS: 20

1. Define photosynthesis?
2. Give an example for symbiotic relationship mode of nutrition?
3. What are villi? What is their location and function?
4. What is reeling of silk?
5. Define humus?
6. Explain how soil is formed?
7. List the similarities and difference between aerobic and anaerobic respiration?
8. What are stomata? What is its function?
9. Describe the various ways of seed dispersal?
10. A simple pendulum takes 64seconds to complete 40 oscillations .What is the time period of the pendulum?

SECTION-B

MARKS: 15

1. a. Describe the different methods of asexual reproduction. Give examples?  
(OR)
1. b. Describe the function of heart?
2. a. Give a brief description of process of photosynthesis in green plants?  
(OR)
2. b. Describe the life cycle of silk moth with a neat diagram and label the stages?
3. a. List the differences between clayey soil and sandy soil?  
(OR)
3. b. Define the following:
  - a. Respiration
  - b. Breathing rate
  - c. Diaphragm

SECTION-C

MARKS:10

MULTIPLE CHOICE QUESTIONS

1. Pigment present in green plants
  - a. Xanthophyll
  - b. Chlorophyll
  - c. Hydrophyll
  - d. Mesophyll
2. Which of the following does not yield wool?
  - a. Yak
  - b. Camel
  - c. Goat
  - d. Woolly dog

3. Silkworm is raised through  
a. Apiculture   b. Sericulture   c. Agriculture   d. Horticulture
4. Plants which traps and feeds on insects is  
a. *Cuscuta*   b. China rose   c. Pitcher plant   d. Rose
5. Plants take carbon dioxide from the atmosphere mainly through their  
a. Roots   b. Stem   c. Flowers   d. Leaves
6. Water reaches the leaves from the roots by  
a. Stomata   b. Phloem   c. Xylem   d. All of these
7. The water holding capacity is the highest in  
a. Sandy soil   b. clayey soil   c. Loamy soil   d. Mixture of sand and loamy
8. If we denote speed by  $S$ , distance by  $D$  and time by  $T$ , the relationship between these quantities is  
a.  $S=DT$    b.  $T=S/D$    c.  $S=1/T*D$    d.  $S=T/D$
9. Which are the gases involved in breathing?  
a.  $O_2$  and  $NO_2$    b.  $O_2$  and  $SO_2$    c.  $O_2$  and  $O_3$    d.  $O_2$  and  $CO_2$
10. Name the organ of the body in which the blood is oxygenated  
a. Heart   b. Lungs   c. Liver   d. Pancreas

SECTION-D

MARKS:5

HOTS-HIGHER ORDER THINKING SKILLS

1. Why do we breathe heavily after a physical exercise like running, brisk walk etc...Is there any change in breathing rate? Does it increase or decrease?
2. Why do plants die in summers, if they are not watered?