

Science Exercises FOR OCTOBER SYLLABUS

Concept 1 : Plant need



1 Choose the correct answer:

- 1 Plants produce their food through a process called
 a. proliferation b. photosynthesis c. growing d. breathing
- 2 Plants use energy from to produce their food from water and carbon dioxide.
 a. batteries b. fire c. sunlight d. wind
- 3 Which of the following gases comes from the air surrounding the atmosphere and is absorbed by the leaves to make plant food?
 a. Carbon dioxide b. Glucose
 c. Oxygen d. Hydrogen
- 4 What parts of the plant transport food from the leaves to the other parts of the plant?
 a. Xylem tissues b. Small roots c. Chloroplasts d. Phloems
- 5 Which statement does not represent the activity of the plant?
 a. Photosynthesis takes place inside the chloroplasts.
 b. Sugar travels to the leaves through the stem.
 c. Plant roots absorb water and nutrients from the soil.
 d. Plants use sunlight, nutrients from the soil, water, and oxygen to produce the food they need.
- 6 Photosynthesis takes place inside the plant leaf. What type of gas does a plant release during photosynthesis?
 a. Nitrogen b. Hydrogen c. Oxygen d. Carbon dioxide
- 7 Which plant part plays a similar role to the human circulatory system, in order to maintain the survival of the plant?
 a. Stem b. Roots
 c. Leaves d. Transport system



- 8 _____ carry blood from the heart to all body parts.
 a. Arteries b. Veins c. Lungs d. Phloems
- 9 Which of the following living organisms can make their own food?
 a. Bacteria b. Rabbits c. Acacia trees d. Caracals
- 10 All the following can help in seed dispersal, except
 a. water b. humans c. animals d. sunlight
- 11 All the following are from the plant basic needs, except
 a. water b. air c. soil d. sunlight
- 12 The blood rich in carbon dioxide gas return back to the heart through the
 a. arteries b. veins c. lungs d. xylem
- 13 Photosynthesis process takes place in the
 a. stem b. leaves c. roots d. xylem
- 14 _____ plant has climb stems.
 a. Potato b. Tomato c. Vine d. Pine
- 15 Plants produce _____ during photosynthesis process.
 a. water and glucose
 b. oxygen gas and glucose
 c. carbon dioxide gas and water
 d. glucose and carbon dioxide gas
- 16 The _____ are the reproductive part of the plant.
 a. flowers b. stems c. leaves d. roots
- 17 All the following are from the components of the human circulatory system, except the
 a. heart b. veins c. arteries d. phloem
- 18 Dandelion seeds are light and feathery, and they are able to disperse by
 a. water b. air
 c. animals d. phloem



Revision

- 19 All the following materials can reach the plant's leaves, except
 a. nutrients b. carbon dioxide gas
 c. water d. soil
- 20 The _____ of the plant get water and nutrients from the soil.
 a. roots b. stems c. leaves d. soil
- 21 When the plant seed begins to grow and makes sprouts, this process is Called _____
 a. respiration b. germination c. absorption d. reproduction
- 22 The kind of stems that extend underground are called _____
 a. climb stems b. tubers c. runners d. wood stems
- 23 The green plants can make their own food through the _____
 a. roots b. stems c. leaves d. flowers
- 24 In plant's leaves, light energy is converted into _____ energy during photosynthesis.
 a. sound b. electrical c. chemical d. kinetic
- 25 In the presence of sun and water, the seeds can germinate at the beginning of growth without the need for _____
 a. soil b. rocks c. insects d. dry paper towel
- 26 Plants take _____ from the air to make their food.
 a. water b. oxygen gas
 c. carbon dioxide gas d. sugar
- 27 _____ allow(s) carbon dioxide to enter the leaves.
 a. Stomata b. Chloroplasts c. Chlorophyll d. Roots
- 28 All the following are plant basic needs to make its own food, except
 a. water b. air c. sunlight d. rocks
- 29 _____ can make their own food.
 a. Plants only b. Animals only
 c. Humans only d. Plants and some animals



- 30 The movement of seeds from a place to another is called seed _____.
- a. germination b. dispersal
c. reproduction d. growth
- 31 If we put some bean seeds in a _____ facing the sunlight, it may germinate.
- a. dry paper towel b. wet paper towel
c. plastic plate d. metric ruler
- 32 Stomata are present on the plant's _____ to allow air to pass through.
- a. roots b. stems c. leaves d. flowers
- 33 Dandelion seeds travel by wind because they are _____ seeds.
- a. light b. spiny c. heavy d. smooth
- 34 Burdock seeds have spines, so they can _____.
- a. float on water b. travel by wind
c. stick to animal fur d. be eaten by animals
- 35 All the following parts are important for plants to make photosynthesis process, except _____.
- a. roots b. leaves c. stems d. flowers
- 36 From the ways of seeds dispersal is floating on water as in _____.
- a. burdock seeds b. tomato seeds
c. dandelion seeds d. coconut seeds
- 37 There are _____ in the plant's roots that help the plant to get more water and nutrients.
- a. vessels b. root hairs c. stomata d. flowers
- 38 The tubes that are responsible for moving water and nutrients up the plant's stem are called _____.
- a. roots b. xylem c. leaves d. flowers
- 39 A _____ is actually a miniature plant waiting to grow.
- a. seed b. leaf c. rock d. flower



Revision

- 40 Without _____, the plants can't grow well.
 a. insects b. rocks c. sunlight d. the moon
- 41 Humans and other animals need to eat to get _____.
 a. oxygen gas b. energy
 c. carbon dioxide gas d. soil
- 42 The roots of a plant absorb _____ from the soil to help it grow.
 a. oxygen gas b. carbon dioxide gas
 c. sugar d. water
- 43 Wing-shaped seeds can disperse by _____ easily.
 a. air b. sunlight c. water d. animals
- 44 Plants make their food by a process known as _____.
 a. respiration b. absorption c. photosynthesis d. digestion
- 45 Sunlight and carbon dioxide gas are collected by plant's _____ to make its food.
 a. roots b. stems c. leaves d. flowers
- 46 Apple trees have _____.
 a. wood stem b. climb stems c. tubers d. runners
- 47 The seeds of a _____ are small dark-colored objects in the center of the flower.
 a. pine tree b. sunflower c. potato plant d. celery
- 48 _____ tree has narrow leaves.
 a. Potato b. Pine c. Acacia d. Grapes
- 49 The reproductive parts of many plants are called _____.
 a. veins b. roots c. leaves d. flowers
- 50 Roots absorb _____ from the soil.
 a. minerals b. carbon dioxide gas
 c. water d. water and minerals
- 51 Plants can produce new seeds by their _____.
 a. roots b. leaves c. stems d. flowers
- 52 The green color of the plant's leaves is due to the presence of _____.
 a. xylem b. phloem c. chlorophyll d. stomata



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Revision

- 63 Water and nutrients are carried from the roots to the leaves through the
a. stem b. soil c. fruits d. flowers
- 64 carry blood which is rich in oxygen and glucose from the heart to the body cells.
a. Arteries b. Veins
c. Lungs and veins d. Brain and veins
- 65 During photosynthesis process, the plant takes
a. oxygen b. carbon dioxide
c. nitrogen d. water vapor
- 66 During photosynthesis process, the plant produces that provides it with energy to survive.
a. carbon dioxide gas b. water
c. glucose sugar d. oxygen gas
- 67 The absorb water and nutrients from the soil.
a. leaves b. stems c. roots d. fruits
- 68 The hydroponic system should be full of and to help the plant grow.
a. water - oil b. sunlight - water
c. sand - water d. water- minerals
- 69 Which of the following sentences is wrong?
a. Plants need sunlight to grow.
b. Plant roots absorb water from the soil.
c. Plants make their own food by respiration process.
d. Plants make their own food in their leaves.
- 70 Plants and humans are similar in some of their basic needs to survive, such as
a. sunlight and rocks b. water and air
c. carbon dioxide gas and soil d. soil and water



- 71 During photosynthesis, plants can convert energy to energy.
- a. light - chemical b. chemical - light
c. light - thermal d. chemical - thermal
- 72 and are from the plant needs that help it make photosynthesis.
- a. Oxygen - water b. Sunlight - carbon dioxide
c. Water - earth worms d. Nutrients - oxygen
- 73 The give(s) the plant leaves their green color.
- a. stem b. root c. stomata d. chlorophyll
- 74 The plant placed in a dark room for a week will have
- a. green leaves b. long stem c. strong roots d. a few leaves
- 75 The of a plant are responsible for fixing the plant in the soil.
- a. leaves b. stems c. roots d. flowers
- 76 Photosynthesis process requires all the following natural resources, except
- a. water b. sunlight
c. oxygen gas d. carbon dioxide gas
- 77 The absorb(s) the sunlight of the sun during photosynthesis process.
- a. chlorophyll b. stomata c. xylem d. phloem



2 Put (✓) or (X):

- 1 The human circulatory system transports water, oxygen and nutrients throughout the human body. ✗ ✓
- 2 Xylem vessels transport water and minerals in all directions. ✗ ✓
- 3 The plant absorbs carbon dioxide from the air to make its own food. ✗ ✓
- 4 A plant's stem has hairs that absorb oxygen gas from the air. ✗ ✓
- 5 Soil is among the basic needs of a plant. ✗ ✓

Revision



- 6 Sunlight is not important for the plant's growth. ☐ ☒
- 7 Glucose is a type of sugar that is produced from plants during photosynthesis process. ☐ ☒
- 8 Photosynthesis process takes place in all plant parts. ☐ ☒
- 9 Air enters plants through their chlorophyll. ☐ ☒
- 10 Plants and humans are similar in the way of getting food. ☐ ☒
- 11 The plant is fixed in the soil by the help of its roots. ☐ ☒
- 12 The plant grows well and healthy with green leaves in the absence of light. ☐ ☒
- 13 The seeds that are put in a soil full of water and minerals can grow slower than the seeds that are put in a wet paper towel. ☐ ☒
- 14 Roots of plants collect sunlight and carbon dioxide gas from air. ☐ ☒
- 15 A plant's stem has hairs that absorb oxygen gas from the air. ☐ ☒
- 16 A tree trunk is a type of stems called upright stem. ☐ ☒
- 17 The blood flows in all directions within the blood vessels. ☐ ☒
- 18 All plants have roots, stems and leaves. ☐ ☒
- 19 Potato plants have stems called tubers. ☐ ☒
- 20 The chlorophyll in plant's roots absorbs sunlight. ☐ ☒
- 21 All seeds need soil in its initial growth. ☐ ☒
- 22 The leaves of pine trees are flat and wide. ☐ ☒
- 23 Plants and animals can make their own food by themselves. ☐ ☒
- 24 Plants need sunlight, oxygen gas and water to make their own food. ☐ ☒
- 25 Each part of the plant has its own function. ☐ ☒
- 26 Plants and humans are similar in the way of getting food. ☐ ☒
- 27 Vines have a kind of stems called climb stems. ☐ ☒
- 28 During photosynthesis process, the plant makes sugar, starch, protein and fats that help it to survive. ☐ ☒

