



Science

4th primary

Questions

Unit (1)

1) Complete the following:

- 1- Protein digestion starts in
- 2- Starch digestion starts in
- 3- Fat digestion starts in
- 4- The living organism body is made up of systems integrated with each other, and every system is made up of each of them has its own function.
- 5- Proteins are digested in.....and
- 6-and.....are examples of digestive juices in the human body.
- 7- Small intestine is divided intoand
- 8- The building unit of a living organism is called
- 9- Theprocess is a breaking down of complex food to get benefit from it.
- 10- From the functions of the large intestine are and





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- 11- are located inside thoracic cavity and surrounded by
- 12- The total number of teeth in adult is in each Jaw.
- 13- Digestive canal supplementaries are salivary glands, and
- 14- Salivary glands are pairs which secrete a liquid known as
- 15- The longest part of digestive system is as its length is aboutmeters.
- 16- The diaphragm separates the.....Cavity from.....cavity.
- 17- Exchange of gases takes place in the
- 18- Exchange of gases occurs in alveoli between &
- 19- Fish inhales the Oxygen dissolved in water by while human inhales the Oxygen by
- 20- Pharynx is the common path betweensystem &system.
- 21- Respiration occurs in two steps&





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22-..... is the membrane that separates the thoracic from abdomen.

23-Air enters the lungs during the process of & leaves them during the process of

24-.....muscle helps in mechanism of respiration.

25-Food + (Burning) + +

26-Nose is lined with , &

27-Trachea is lined with

28-Breathing throughis preferable than breathing through

29-.....gas changes lime water into milky.

30-..... gas is released as a product of a respiration process.

31-The exhaled air contains moregas than inhaled air.

32-During inhalation process the diaphragm moves

....., the volume of chest cavity& the air goesthe lungs.





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33-During exhalation process, the diaphragm moves.....,
the volume of chest cavity& the air goes
.....the lungs.

34- Larynx is called

35- Inhaled air is rich inwhile exhaled air is rich
in

36- The trachea is branched into two

37-Alveoli havewalls for exchange of gases.

38-Bronchioles end in tiny air sacs called

39-To keep your respiratory system healthy, you should.....

40-.....,andare common
between plant & animal cell.

41-.....,are existed in plant cell only.

42-.....is the functional & building unit of living organisms.

43-Theis a unicellular living organism.

44-The cell is the&unit in the body of
living organisms.

45-From the functions of the cell.....&.....





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46-Unicellular organisms asor

47-Plant cells are surrounded bywhile animal cells are surrounded by

48-Plant cell is characterized from the animal cell by having&

49-The yeast fungus is used in making &

50-..... feed on the organic remains.

51-The living organism which makes its own food is known as

52-The producers gets the energy from

53-..... gas is evolved by green plants during the process of photosynthesis.

54-We can check the existence of starch in the plant leaf by using.....

55-The process of photosynthesis needs the presence of, and

56-The living organisms which are responsible for decomposing remains of living organisms are known as





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57-The main source of energy on earth's surface is the

58-Photosynthesis process produces and

2) Choose the correct answer :

1-Digested food is absorbed in the

- | | |
|--------------------|--------------------|
| a. Esophagus | b. stomach |
| c. small intestine | d. large intestine |

2-Starch digestion starts by the

- | | |
|------------------|---------------------|
| a. Gastric juice | b. intestinal juice |
| c. saliva | d. Bile Juice |

3-undigested food is assembled in the

- | | |
|--------------------|--------------------|
| a. stomach | b. small intestine |
| c. large intestine | d. Duodenum |

4-The stomach belongs to thesystem.

- | | |
|--------------|-----------------|
| a. Digestive | b. Reproductive |
| c. urinary | d. Nervous |

5- The function of nervous system is

- | | | |
|--------------|--------------|--------------|
| a. digestion | b. sensation | c. excretion |
|--------------|--------------|--------------|

6- The digested food is absorbed in the

- | | | |
|-----------|----------|-------------|
| a. larynx | b. ileum | c. duodenum |
|-----------|----------|-------------|





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7- allows food to pass from pharynx to stomach.

- a. mouth b. esophagus c. large intestine

8- In the digestive system, the stomach is followed by the.....

- a. esophagus b. duodenum c. ileum

9- The number of respiration times increases in.....case.

- a. sitting b. running
c. sleeping d. standing

10- From the examples of the producers is

- a. fish b. rabbit c. bean

11-..... are examples of producers.

- a. Algae b. reptiles
c. fungi d. birds

12-..... are examples of decomposers.

- a. algae b. reptiles
c. fungi d. Birds

13-A hawk is an example of

- a. producers b. consumers
c. decomposers d. all the previous

14-Chloroplasts are found in

- a. producers b. consumers
c. decomposers d. all the previous





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15-Bread mold fungus is a

- a. producer
- b. consumer
- c. decomposer
- d. all the previous

16-Plants use gas in the process of photosynthesis.

- a. Oxygen
- b. nitrogen
- c. carbon dioxide
- d. water vapor

17-All the following living organisms are producers except

- a. green algae
- b. maize plant
- c. bread mold
- d. wheat plant

3) Write the scientific term:

1-The building unit of living organisms [.....]

2-A liquid secreted in the mouth and helps in starches digestion [.....]

3-A juice is secreted from the liver and affects fats digestion [.....]

4-The system which supplies the body with Oxygen & take away carbon dioxide. [.....]

5- The organ that mixes food with saliva. [.....]





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- 6- The respiratory tube that is supported by in complete cartilaginous rings that make it permanently open. [.....]
- 7- The process by which the green plant makes its own food. [.....]
- 8-It prevents the food from entering the respiratory system. [.....]
- 9-The organ that allows air and food to pass through it. [.....]
- 10-A process by which Oxygen gas enters the lungs. [.....]
- 11-A common organ between digestive & respiratory system. [.....]
- 12-The process by which human obtains energy from digested food [.....]
- 13-They exist in trachea to eject strange substances. [.....]
- 14-The muscle that helps in the mechanism of respiration. [.....]





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15-They are found in nose and warm air before entering the lungs. [.....]

16-A common path between esophagus & trachea. [.....]

17-A tube in respiratory system that is lined with Cilia. [.....]

18-An organ found at the top of trachea and is called the voice box. [.....]

19-A process by which carbon dioxide gas & water vapour come out from the 2 lungs. [.....]

20-A process in which thoracic cavity enlarges & air rich in Oxygen enters the 2 lungs. [.....]

21-A process in which thoracic cavity becomes narrow & the air rich in carbon dioxide gas goes out from the 2 lungs.[.....]

22-The muscle that separate thoracic cavity from abdominal cavity. [.....]

23-The building unit of plants. [.....]

24-The building unit of animals. [.....]





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- 25-Tiny structures spread in cytoplasm of plant cells and are responsible for photosynthesis process. [.....]
- 26-The cell component which plays an important role in cell division. [.....]
- 27-A fluid fills the cell, where the biological processes occur. [.....]
- 28-A structure that controls the substances that enter or leave the cell. [.....]
- 29-A unicellular organism used in making bread. [.....]
- 30-A unicellular organism used in making alcohol. [.....]
- 31-The integrated living organism that has one cell only. [.....]
- 32-A group of tissues that work together. [.....]
- 33-The functional unit of living organisms that can be seen only by microscope . [.....]
- 34- A type of living organisms important in many industries as fertilizers, tanning leathers and biogas. [.....]





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4) Give reason for:

- 1- Proteins are digested in stomach and small intestine.
- 2- Teeth are formed from incisors canines and molars.
- 3-The respiration process is very important.
- 4-Breathing through nose is preferable to that through mouth.
- 5-The trachea has incomplete cartilaginous rings.
- 6-The trachea is lined with cilia.
- 7-Food doesn't enter the trachea during swallowing.
- 8-Lungs have alveoli.
- 9-Alveoli have thin walls.
- 10-Alveoli are surrounded by a network of blood capillaries
- 11-The exhaled air differs from the inhaled air.
- 12-The exhaled air turns clear lime water into turbid.
- 13-You must eat fruits as orange & guava.
- 14-You must avoid being in crowded places.
- 15-Plant can make its own food.
- 16-Plant cell has a definite shape.
- 17-The nucleus of the cell has an important role.





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18-The cell membrane is a very important component in the cell.

19-Unicellular organisms are integrated living organisms.

20-Yeast fungus has a definite shape.

21-Yeast fungus has an economic importance.

22- Green plants are called autotrophic organisms.

23- The plant can't live without sunlight.

24-Green algae are considered as producers.

25-Decomposers have a great economical and environmental importance.

26-There are chloroplasts in the cells of the producers.

27-Food spoils if it is left outside the refrigerator for a long period of time.

5) Put (✓) or (X) and correct the wrong:

1-Gastric juice digests fats. ()

2-Saliva digests protein. ()

3-Bile juice helps to digest fats. ()

4- The organ consists of a group of tissues. ()

5- The living organisms can't respire. ()





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6- Plant grows in the presence of sunlight. ()

7- The iodine is used to detect the presence of sugar. ()

8- Sun is the main source of energy on the earth. ()

9- We can examine the components of animal & plant cell by using compound microscope. ()

10- Some unicellular organisms are harmful as bacteria that cause diseases. ()

11- Some unicellular organisms are useful as the bacteria used in making yoghurt & cheese. ()

12- Grass eaters are producers. ()

6) What is the advice that you should give your classmates to keep their digestive system healthy?

7) What happens in each of the following cases?

1. Removal of the small intestine from a human body
2. The absence of chloroplasts from the corn plant.
3. The absence of decomposers from nature.
4. The microscope is not discovered.

8) State the type of juices secreted by:

1. Salivary glands.
2. Liver
3. Pancreas





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9) What is the role of following organs?

1. Stomach
2. Small intestine

10) Answer the following:

1. Name the organs where starches are digested.
2. What is the benefit of large intestine?
3. What is the organ that produces a bile juice?

11) Classify the following living organism into producers, consumers and decomposers:

Dog - lion - corn plant - green algae - yeast fungus - human - yoghurt bacteria

12) Compare between:

Producers - consumers and decomposers and give an example for each type.

13) Mention the function of the following:

- 1- The salivary glands in the mouth.
- 2- The cilia in the trachea.
- 3- The tongue.





- 4- The epiglottis.
- 5- The liver.
- 6- Green plastids.
- 7- Pancreas.
- 8- Alveoli (air sacs).

Unit (2)

1) Complete the following:

- 1-In green plants, energy is changed into energy stored in a form of food.
- 2- Energy is the ability to do
- 3- From the forms of energy,,
- 4- Light energy changes into electric energy in
- 5- In the motor of car.....energy changes into energy.
- 6- Sound originates due to
- 7- In electric lamp, electric energy changes into energy.
- 8- Sources of energy are divided into and





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9- From the renewable resources of energy,

and

10- We get energy from the solar cells.

11- Wind mills are used in

12- The is from the cleanest source of energy.

13- In battery, energy is changed into energy.

14- From non - renewable resources of energy are ,
..... and

15- The main source of heat and light on the surface of Earth is
.....

2) Choose the correct answer :

1- On vibration of a spring an exchange happens between

- a. potential energy to electric energy
- b. potential energy to kinetic energy
- c. potential energy to light energy

2- Sound is a form of

- a. mass
- b. speed
- c. energy





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3- From non - renewable resources of energy

- a. sea water b. coal
- c. sunlight d. wind

4- From examples of electric energy , the energy produced from

- a. piano b. fan
- c. battery d. heater

5- From the permanent sources of energy is

- a. wind b. sun
- c. ebb and tides d. waterfall

6- Washing machine and electric heater work by

- a. static electricity
- b. current electricity
- c. both static and current electricity

7- is a form of energy that reaches ear causing hearing .

- a. light b. sound c. heat





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3) Write the scientific term:

- 1- The energy produced from the dry cell. [.....]
- 2- A form of energy produced from the vibration of bodies.
[.....]
- 3- The energy stored in the spring of a toy. [.....]
- 4- A device changes light energy into electric energy[.....]
- 5- A device that changes kinetic into electric energy.
[.....]
- 6- A device that changes chemical energy into electric energy.
[.....]
- 7- A device that changes electric into kinetic. [.....]
- 8- Sources include petroleum, coal and natural gas. [.....]
- 9- The main source of energy on earth's surface. [.....]
- 10- A fuel from the cleanest non - renewable resources.
[.....]
- 11- A type of fuel produced when high temperature and pressure
affect dead animals and plants buried under the earth.
[.....]





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12- It is happen when negative electric charges found in clouds meet with positive electric charges rising from earth.

[.....]

13- Rays emited by the sun, helps in the formation of vitamin (D).

[.....]

14- A type of energy used in the developed countries to generate electricity.

[.....]

15- A way by which we can generate static electricity.

[.....]

16- * Type of electricity that is formed from electric charges that remain on an object.

* Electricity which causes the standing of hair during combing it with a plastic comb.

* Electricity which causes lighting in the sky. [.....]

17- * It is the electric charges that flow through wires for long distance.

* A type of electricity operates computer and heater.

[.....]





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18- The fruits are used to make a battery. [.....]

4) Give reason for:

- 1- * On removing a nail from a wooden plate, the nail becomes warm.
* after hammering on a piece of iron it becomes hot.
- 2- Wind and the water fall are renewable resources of energy.
- 3- It is preferred to use natural gas to coal.
- 4- The sun has many benefits.
- 5- * Standing of hair when you comb it by plastic comb.
* Hearing sound when you take off your clothes.
* Plastic ruler attract small pits of paper after rubbing.
- 6- Coal and petroleum are non - renewable resource of energy.
- 7- The lighting of a car lamp increases by increasing the speed of the car.
- 8- Don't use the electric current at home when you perform an activity.
- 9- Battery is a main part in the electric circuit.





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10- Nuclear energy is considered from non renewable sources of energy.

11- Sound that originates from vibration of tuning fork stopped when you touch it by your hand.

12- The presence of switch in an electric circuit.

5) Put (✓) or (X) and correct the wrong:

1- Car motor works by natural gas or benzene. ()

2- coal & petroleum from renewable resources of energy. ()

3- Wind is one of non - renewable resources of energy. ()

4- Sound stops when the vibration of tuning fork stops. ()

5- Natural gas is considered as the cleanest type of fuel. ()

6- On filling the spring of a car toy, kinetic energy changes into potential energy. ()





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7- Small bits of paper are attracted to a rubbed plastic ruler.

()

8- Sun provides us only with light energy.

()

9- Turbines, cars, rockets work by non - renewable resources of energy.

()

10- Static electricity is the electric charges that flow through connecting wires.

()

11- The charged ruler attracts small bits of paper. ()

12- Lightning happens when negative charges (cloud) meet positive charges (earth).

()

13- We can get electricity from nuclear energy. ()

14- Petroleum is the remains of animals which buried under the earth.

()

15- Sun emits ultraviolet rays, helps in the formation of vitamin "D" which is important for bones.

()

16. Non - renewable energy is the energy that can't renew itself such as coal.

()





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17. When sun rays fall on a lens that put over a paper , the paper is burned. ()

6) Mention the function of the following:

- 1- The dynamo.
- 2- The motor.
- 3- The solar cell.
- 4- Battery in electric circuit.





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Model answer

Unit (1)

1) Complete the following :

1. Stomach
2. Mouth
3. Duodenum (small intestine)
4. Organs
5. Stomach, small intestine
6. Bile juice, Gastric juice
7. Duodenum, ileum
8. Cell
9. Digestion
10. storing undigested food - absorbing water from wastes
11. lungs - ribs
12. 16
13. liver - pancreas
14. 3 - saliva
15. small intestine - 7 meters





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16. Thoracic, abdominal
17. Alveoli
18. Air in alveoli & blood in blood capillaries
19. Gills, 2 lungs
20. Digestive, respiratory
21. In halation & Exhalation
22. Diaphragm
23. Inhalation, Exhalation
24. Diaphragm
25. Oxygen, carbon dioxide + energy + water vapour
26. Hair, mucous, blood capillaries
27. Cilia
28. Nose, mouth
29. Carbon dioxide
30. Carbon dioxide
31. Carbon dioxide
32. downwards , increases, inside
33. Upwards , decreases, out side





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- 34. Voice box
- 35. Oxygen, carbon dioxide
- 36. Bronchi
- 37. Thin
- 38. Alveoli
- 39. Avoid crowded places, stop smoking & eating fruits rich in vitamin (C)
- 40. Nucleus, cytoplasm, plasma membrane
- 41. Chloroplast, cell wall
- 42. Cell
- 43. Yeast fungus
- 44. Functional, structural
- 45. Respiration, growth, motion
- 46. yeast fungus , bacteria
- 47. Cell wall, plasma membrane
- 48. Cell wall, chloroplast
- 49. Alcohol & bread
- 50. Decomposers





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51. Producer

52. Sunlight

53. Oxygen

54. Iodine solution

55. Sunlight, carbon dioxide and Water and salts

56. Decomposers

57. Sun

58. Oxygen, starch (sugar)

2) Choose the correct answer:

1. (C)

2. (C)

3. (C)

4. (a)

5. (b)

6. (b)

7. (b)

8. (b)

9. (b)

10. (c)

11. (a)

12. (c)

13. (b)

14. (a)

15. (c)

16. (c)

17. (c)

3) Write the scientific term:

1. [cell]

2. [saliva]

3. [bile juice]





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- 4.[Respiratory system]
5. [tongue]
6. Trachea
7. Photosynthesis
- 8.[epiglottis]
- 9.[pharynx]
- 10.[Inhalation process]
11. [Pharynx]
- 12.[Respiration process]
- 13.[Cilia]
- 14.[diaphragm]
- 15.[Blood capillaries]
- 16.[pharynx]
- 17.[Trachea]
- 18.[Larynx]
- 19.[Exhalation process]
20. [Inhalation process]
- 21.[Exhalation process]





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- 22. [Diaphragm]
- 23. [Plant cell]
- 24. [Animal cell]
- 25. [chloroplasts]
- 26. [Nucleus]
- 27. [Cytoplasm]
- 28. [Plasma membrane]
- 29. [yeast fungus]
- 30. [Yeast fungus]
- 31. [unicellular organism]
- 32. [Organ]
- 33. [cell]
- 34. [decomposers]

4) Give reason for:

1. Because protein is partially digested in stomach by help of gastric juice and it is completely digested in small intestine by help of intestinal juice.





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2. Because incisors and canines cut and tear the food and molars grind the food.
3. Because it gives the body of living organisms the needed energy to do all vital activities.
4. Because the nose is lined with :
 - * Hairs & mucous layer to filter the air from dust.
 - * blood capillaries to warm the air before entering the lungs.
5. To keep it opened all the time
6. To eject up the strange objects as dust.
7. Due to the presence of epiglottis that closes the trachea during swallowing.
8. for exchange of gases
9. for exchange of gases.
10. Because exchange of gases occurs between air in alveoli & blood in blood capillaries.
11. Because the exhaled air contains carbon dioxide & water vapour while the inhaled air is rich in Oxygen gas.
12. Because it contains carbon dioxide gas





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13. To provide us with vitamin (C) that keeps our respiratory system healthy
14. To keep the respiratory system healthy.
15. Due to the presence of chloroplasts.
16. Due to the presence of cell wall.
17. Because it is responsible for the cell division.
18. Because it controls the substance that enter or leave the cell.
19. Because it has the ability to do all vital activities
20. Due to the presence of cell wall.
21. Because it is used in making bread & alcohol.
22. Because producers can make their own food by photo synthesis process.
23. Because it depends on itself to make its own food.
24. Because it absorbs sunlight to make food by the photosynthesis process.
25. Because they help us to get rid of dead bodies, increase the soil fertility and used in a lot of industries.
26. Because they can make their own food.





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27. Due to the presence of decomposers that feed on the remains of food.

5) Put right or wrong:

- | | |
|-----------------------------------|-------------------------|
| 1. (x) gastric juice → bile juice | 2. (x) protein → starch |
| 3. (√) | 4. (√) |
| 5. (x) can't → can | 6. (√) |
| 7. (x) sugar → starch | 8. (√) |
| 9. (x) compound → electronic | 10. (√) |
| 11. (√) | 12. (√) |

6)

1. Avoid eating fast food that contain high amount of fat
2. Chew food well
3. Avoid eating food from street sellers.
4. Practice sports

7)

1. Human body cannot digest food completely and can not absorb it so the body will not get benefit from food.
2. It can't make its food by photosynthesis process.





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3. The soil fertility decrease, dead bodies and the plant remains will cover the earth's surface.

4. We can't examine the cell.

8)

1. Salivary glands: Saliva

2. Liver: bile juice

3. Pancreas: Pancreatic juice

9)

1. Stomach: It secretes gastric juice that makes incomplete digestion of protein

2. Small intestine: The food is completely digested in it by the help of bile juice, pancreatic juice and intestinal juice. The digested food is absorbed in it also.

10)

1. Mouth

2. Large intestine: stores wastes and absorbs water

3. Liver





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11) Producers: corn plant - green algae

Consumers: Dog - lion - Human

Decomposers: yeast fungus - yoghurt bacteria

12)

Point of comparison	Producers	Consumers	Decomposer
Definition	Living organism can make their own food by (photosynthesis)	Living organisms can't make their own food (depend on producers directly or indirectly)	Living organisms can't make their food (decomposing the organic wastes)
Examples	Green plants Green Algae	Cows - sheep Chicken and Human	- Some types of bacteria - some types of fungi

13)

1) Secrets saliva which change starch into sugar.

2) Eject any strange substance.

3) Taste, Mix food with saliva- Help in swallowing -Help us to speak.





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- 4) Close trachea during swallowing to prevent food from entering trachea.
- 5) Secrets bile juice which change fats into fatty emulsion.
- 6) Photosynthesis process in plants.
- 7) Secrets pancreatic juice.
- 8) Gas exchange.

Unit(2)

1)Complete:-

1. Light - chemical
2. work
3. electric energy , light energy , heat energy
4. solar cell
5. electric, kinetic.
6. vibration of objects
7. light
8. renewable sources , non renewable sources
9. wind , waterfall and tide and ebb
10. electric





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11. generating electricity
12. natural gas
13. chemical - electric
14. petroleum - coal - natural gas
15. sun

2) Choose the correct answer:

- | | | | |
|--------|--------|--------|--------|
| 1. (b) | 2. (c) | 3. (c) | 4. (c) |
| 5. (b) | 6. (b) | 7. (b) | |

3) Write the scientific term:

1. [Electric energy]
2. [sound energy]
3. [potential energy]
4. [solar cell]
5. [dynamo]
6. [battery] or [dry cell]
7. [motor]
8. [non - renewable]
9. [sun]





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10. [Natural gas]
11. [petroleum]
12. [Lightning]
13. [ultraviolet rays]
14. [nuclear energy]
15. [rubbing]
16. [static electricity]
17. [current electricity]
18. [apple , orange , lemon]

4) Give reason for:-

1. Because the kinetic energy changes into heat energy.
2. Because they can renew themselves.
3. Because it is the cleanest fuel to keep the environment away from pollution.
4. **Because it:**
 - a- Provide us with heat and light.
 - b- Helps the plant to make it's own food (photosynthesis).
 - c- Formation of clouds, rain and winds.





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d- Formation of fuel to operate machines.

5. Due to formation of static electricity by formation of electric charges on the object.

6. Because they can't renew themselves and may run out by continuous use.

7. Due to the presence of Dynamo that change the kinetic energy into electric energy.

8. Because the electric current of home has high power that may cause death.

9. Because it is the source of electricity.

10. Because it can't renew itself.

11. Because when we touch it we stop the vibration that cause sound.

12. To open and close it.

5) Put right or wrong:

1. (✓)

2. (x) renewable → non-renewable

3. (x) Wind → Coal

4. (✓)

5. (✓)

6. (✓)





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7. (√)

8. (x) light → light and heat

9. (x) turbine → planes

10. (x) static → current

11. (√)

12. (√)

13. (√)

14. (√)

15. (√)

16. (√)

17. (√)

6)

1) Change kinetic energy into electric energy.

2) Change electric energy into kinetic energy.

3) Change solar energy into electric energy.

4) Source of energy.

Good Luck

