

6th Science Book Back Questions With Answers in English

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6th Std Term - II

1. Cell Structure

I. Choose the correct answer.

- The structural and functional unit of the living organisms is _____
(a) nucleus (b) **cells**
(c) mitochondria (d) ribosome
- The instrument used to magnify the things placed on the slide is _____
(a) telescope (b) **microscope**
(c) binocular (d) periscope
- The _____ is the powerhouse of the cell.
(a) **mitochondria** (b) ribosome
(c) lysosome (d) nucleus
- The organelle which is known as “suicidal bag” is the _____
(a) dictyosome (b) ribosome
(c) centrosome (d) **lysosome**
- The spherical organelle which controls the activities of the cell is _____
(a) golgi bodies (b) ribosome
(c) **nucleus** (d) lysosome
- The organelle that involves in destroying the germs which enter the cell is _____
(a) dictyosome (b) ribosome
(c) centrosome (d) **lysosome**
- The organelle which is found only in animal cell is _____
(a) mitochondria (b) **centrosome**
(c) plasma membrane (d) chloroplast
- The cell of a/an _____ contains a large vacuole.

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- (a) **onion peel** (b) bacteria
(c) nerve (d) muscle
9. The longest cell is the _____
(a) bone cell (b) **nerve cell**
(c) cell of a muscle (d) blood cell
10. Who discovered the cell?
(a) **Robert Hooke** (b) Robert Brown
(c) J.E.Purkinjee (d) Newton
11. _____ invented an advanced microscope
(a) Newton (b) J.J.Thomson
(c) **Robert Brown** (d) J.E.Purkinjee
12. Bacteria is an example of _____
(a) eukaryotic cell (b) **prokaryotic cell**
(c) plant cell (d) complete cell
13. Which of the following gives shape to the cell?
(a) Protoplasm (b) Cytoplasm
(c) Nucleus (d) **Plasma membrane**
14. The cell activities are controlled by _____
(a) Cytoplasm (b) **Nucleus**
(c) Plasma membrane (d) Mitochondria
15. The genetic characters are determined by _____
(a) Mitochondria (b) Golgi bodies
(c) Ribosome (d) **Nucleus**
16. Which of the following gives strength to the cells and the body?
(a) Nucleus (b) **Golgi bodies**

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- (c) Ribosome (d) Mitochondria
17. Which of the following maintains the intracellular pressure in animal cell?
- (a) Lysosomes (b) **Vacuoles**
(c) Golgi bodies (d) Ribosomes
18. Which one of the following is not a plastid?
- (a) **Mitochondria** (b) Chloroplast
(c) Chromoplast (d) Leucoplast
19. Which is absent in animal cell?
- (a) Cell wall (b) Chloroplast
(c) Chromoplast (d) **All the above**
20. Which of the following decides the structure of all organisms?
- (a) Cell wall (b) Mitochondria
(c) Cytoplasm (d) **Nucleus**
21. Mitochondria are involved in_____
- (a) **Cell respiration** (b) Secretion of enzymes
(c) Protein synthesis (d) Cell digestion
22. The structure associated with the nucleus is_____
- (a) Nucleoplasm (b) Nucleolus
(c) Chromatin reticulum (d) **All the above**
23. Which of the following acts as a guard in animal cell?
- (a) Protoplasm (b) **Plasma membrane**
(c) Nucleus (d) Mitochondria
24. Which organelle is involved in photosynthesis_____
- (a) Chromoplast (b) Centrosome
(c) **Chloroplast** (d) Cell wall

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II. Fill in the blanks:

1. _____ is the basic structural and fundamental unit of all living organisms.

Ans: Cell

2. _____ discovered the cell in 1665.

Ans: Robert Hooke

3. The nucleus and cytoplasm are present in _____

Ans: Protoplasm

4. The power houses of the cell are _____

Ans: Mitochondria

5. _____ are the protein factories of the cell.

Ans: Ribosomes

6. _____ is responsible for the formation of new cells.

Ans: Centosome

7. Plants are more rigid than animals due to presence of _____

Ans: Cell wall

8. _____ discovered the nucleus.

Ans: Robert Brown

9. Robert Brown invented an advanced _____

Ans: Microscope

10. Cell that contains a well defined nucleus, nuclear membrane and all the cell organelles is called _____ cell.

Ans: Eukaryotic

11. _____ maintain intracellular pressure.

Ans: Vacuoles

III. Match the following

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1.

- | | |
|-----------------|------------------------------|
| 1. Centrosome | a. Plant cell |
| 2. Lysosome | b. Formation of new cells |
| 3. Ribosomes | c. Power houses of cells |
| 4. Mitochondria | d. Protein factories of cell |
| 5. Cell wall | e. Suicidal bags of the cell |

Ans: 1-b,2-e,3-d,4-c,5-a

IV. Answer the following in one or two words.

1. Who was the first to coin the term protoplasm?

Ans: J.E. Purkinjee

2. Name the different types of plastids.

Ans: Chloroplast, Chromoplast and Luecoplast

3. What is the colloidal substance found inside the plasma membrane?

Ans: Protoplasm

4. What are grey hair like bodies found in the animal cell?

Ans: Centrosomes

5. What is the shape of nucleus?

Ans: Spherical

6. What is the main function of Centrosome?

Ans: Cell division

7. Write the components of protoplasm.

Ans: (a) Cytoplasm (b) Nucleus

2. Separation of Substances

I. Choose the correct answer.

1. A suitable method to separate lighter impurities from a mixture is _____

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- (a) **winnowing** (b) hand picking
(c) evaporation (d) magnetic separation
2. In a mixture, solids of different size can be separated by_____
- (a) magnetic separation (b) Winnowing
(c) **sieving** (d) evaporation
3. The method used to separate seeds from fruit juice is_____
- (a) **filtration** (b) sieving
(c) crystallization (d) winnowing
4. Separation of common salt from the sea water is done by_____
- (a) sieving (b) **evaporation**
(c) magnetic separation (d) winnowing
5. The method used to separate substances that differ in colour, size and Shape from a solid mixture is_____
- (a) magnetic separation (b) decantation
(c) **handpicking** (d) sieving
6. While preparing tea, the tea dust is separated by_____
- (a) sieving (b) **winnowing**
(c) **filtration** (d) evaporation
7. Pure rava when adulterated with wheat flour is separated by_____
- (a) **sieving** (b) filtration
(c) condensation (d) magnetic separation
8. The method of separating the substances based on size, colour and shape using hands is called_____
- (a) sieving (b) winnowing
(c) **hand picking** (d) magnetic separation
9. a mixture of grain and husk are separated by_____

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- (a) sieving (b) **winnowing**
(c) condensation (d) evaporation
10. Which of the following is used to separate lighter particles from heavier particles_____
- (a) Evaporation (b) Hand picking
(c) **Winnowing** (d) Magnetic separation
11. Which of the following method id applied to remove the impurities such as bran, husk, stone and worms from flour_____
- (a) **sieving** (b) hand picking
(c) filtration (d) evaporation
12. Iron filings present in rava and tea dust can be separated by_____
- (a) hand picking (b) **magnetic separation**
(c) sieving (d) evaporation
13. The clear liquid above the sediment is called_____
- (a) suspended liquid (b) residue
(c) **supernatant liquid** (d) filtrate
14. The dust particles which remain on the filter paper is called_____
- (a) anode mud (b) filtrate
(c) supernatant liquid (d) **residue**
15. In evaporation process, the change that takes place is_____
- (a) solid to vapour (b) vapour to solid
(c) solid to liquid (d) **liquid to vapour**
16. By which method, is salt separated from sea water_____
- (a) **evaporation** (b) sublimation
(c) condensation (d) sedimentation
17. The process of conversion of vapour into liquid is called_____

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(a) evaporation

(b) **condensation**

(c) sublimation

(d) filtration

18. Formation of rain involves_____

(a) evaporation

(b) condensation

(c) both (a) and (b)

(d) None of these

19. Which process involved in the separation of sand and water?

(a) decantation

(b) sedimentation

(c) filtration

(d) **All the above**

20. One litre of sea water contains____.____ g of salt

(a) 100

(b) 10

(c) **3.5**

(d) 5.5

21. Which method is involved in the preparation of sugar from sugarcane juice_____

(a) filtration

(b) evaporation

(c) Crystallisation

(d) **All the above**

22. Which is the suitable method to separate soluble solid from liquid_____

(a) **crystallisation**

(b) sublimation

(c) sieving

(d) filtration

II. Fill in the blanks.

1. Rice and pluses are separated by_____

Ans: Hand picking

2. The process of conversion of liquid into solid is known as_____

Ans: Crystallisation

3. The method of separating the substances based on_____,_____ and _____ using hands is called hand picking.

Ans: size, colour, shape

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4. The mixture of sand and stone are separated by _____

Ans: sieving

5. _____ are used to lift heavy loads in harbour using electromagnets.

Ans: Elevators

6. The process of conversion of vapour into liquid is known as _____

Ans: condensation

7. The process of conversion of liquid into vapour is known as _____

Ans: evaporation

III. Match the following

1. Evaporation

a. Liquid to solid

2. Condensation

b. Hand picking

3. Crystallisation

c. Winnowing

4. Separation of vegetables

d. Liquid to vapour

5. Separation of grain and husk

e. Vapour to liquid

Ans: 1-d,2-e,3-a,4-b,5-c

IV. Answer the following in one or two words.

1. How will you separate a mixture of wheat flour and wheat granules?

Ans: Sieving

2. How do we separate vegetables at home?

Ans: Hand picking

3. What is filtrate?

Ans: The clear water collected after filtration.

3. Types of Energy

I. Choose the correct answer.

1. Energy required to dry clothes quickly is _____

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- (a) **Solar energy** (b) sound energy
(c) Kinetic energy (d) potential energy
2. "Heat is a form of energy". This was discovered by _____
(a) Voltra (b) **James Joule**
(c) Thomas Alva Edison (d) Galileo
3. Which of the following requires electrical energy?
(a) Windmill (b) **Industry**
(c) Bicycle (d) Parachute
4. The _____ energy cannot be used to run vehicles.
(a) Solar (b) Chemical
(c) Electrical (d) **Sound**
5. When charcoal is burnt, chemical energy is converted into _____
(a) **heat** (b) sound
(c) mechanical (d) solar
6. The energy required to run a bus _____
(a) **energy from fuel** (b) energy from water
(c) energy from wind (d) energy from tides
7. Water stored in dam has _____ energy.
(a) kinetic (b) **potential**
(c) rotational (d) vibration
8. Running water possesses _____ energy.
(a) potential (b) chemical
(c) **kinetic** (d) sound
9. Which one of the following is the unit of energy _____
(a) Kelvin (b) **Joule**

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- (c) Kg (d) Metric tonne
10. In a battery, chemical energy is converted into _____ energy.
- (a) sound (b) **electrical**
(c) solar (d) mechanical
11. In which of the following, electrical energy is converted to mechanical energy _____
- (a) Wind mill (b) Thermal power station
(c) Electric bulb (d) **Electric fan**
12. Solar energy is used in _____.
- (a) solar cooker (b) heater
(c) street light (d) **all the above**
13. During photosynthesis which energy change takes place _____
- (a) Electrical energy to sound energy
(b) **Light energy to chemical energy**
(c) Electrical energy to heat energy
(d) Chemical energy to heat energy
15. Which of the following requires wind energy?
- (a) Bicycle (b) Automobile
(c) **Parachute** (d) Photosynthesis
15. The energy present in a cowdung is _____
- (a) electrical energy (b) **chemical energy**
(c) heat energy (d) potential energy
16. Plants prepare their food from _____ energy
- (a) water (b) **solar**
(c) fertilizer (d) soil

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17. Which one of the following is the main source of all energies _____
- (a) sky (b) water
(c) Sea tides (d) **Sun**
18. In which of the following, heat energy obtained by burning coal is converted into electrical energy _____
- (a) Wind mill (b) Solar cooker
(c) Hydraulic power station (d) **Thermal power station**
19. Which of the following energy is required for the lift to go up _____
- (a) Potential energy (b) Light energy
(c) **Kinetic energy** (d) Solar energy
20. Which of the following energy is used in artificial satellites _____
- (a) Petrol (b) Liquid Hydrogen
(c) **Solar cells** (d) Electrical energy
21. Electric machines change electrical energy into _____ energy.
- (a) solar (b) chemical
(c) sound (d) **mechanical**
22. Wind mills are for _____ generation.
- (a) **electric power** (b) mechanical power
(c) kinetic power (d) all the above
23. Solar energy is used to _____
- (a) get rain (b) obtain salt from sea water
(c) operate artificial satellites (d) **all the above**
24. Which type of energy is used in Telecommunication _____
- (a) **Electrical** (b) Mechanical
(c) Kinetic (d) Potential

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II. Fill in the blanks.

1. _____ is defined as the capacity to do work.

Ans: Energy

2. Potential energy and Kinetic energy are called _____ energy.

Ans: mechanical

3. In the wind mill wind energy is converted into _____ energy.

Ans: electrical

4. During photosynthesis _____ energy is converted into _____ energy and stored in plants.

Ans: solar, chemical

5. In cities _____ is used to run trains.

Ans: electrical energy

6. The primary source of heat energy is the _____

Ans: Sun.

7. Loud speaker convert electrical energy into _____ energy.

Ans: sound

8. Flowing river, moving bus, galloping horse possess _____ energy.

Ans: kinetic

9. _____ energy can bring a moving body to rest or can make a resting body to move.

Ans: Mechanical

10. Heat is from of energy-given by _____

Ans: Joule

11. _____ power stations are at Mettur and Bhavani Sagar.

Ans: Hydro

12. Due to friction and chemical reaction _____ energy is produced.

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Ans: heat

13. _____ are used artificial satellites and calculators.

Ans: Solar cells

14. During _____ plants convert solar energy to chemical energy.

Ans:Photosynthesis

15. In torch light chemical energy is converted into _____ energy and then into _____ energy.

Ans: electrical, light

III. Match the following

- | | |
|--------------------------|--------------------------------------|
| 1. Generator | a. Electrical energy to heat energy |
| 2. Electric bell | b. Sun |
| 3. Iron box | c. Solar energy to chemical energy |
| 4. Primary source energy | d. Mechanical energy to electrical |
| 5. Photosynthesis | e. Electrical energy to sound energy |

Ans: 1-d,2-e,3-a,4-b,5-c



winmeen