

# SCIENCE

## Worksheets

(Based on Learning Outcomes)

Class- 8



स्वाध्यायान्मा प्रमदः

**State Council of Educational Research and Training**

Varun Marg, Defence Colony, New Delhi-110024



## PREFACE

The National Policy on Education 2020 suggests for an increased focus on foundational literacy and numeracy with special focus on reading, writing, speaking, counting, arithmetic, and mathematical thinking throughout the preparatory and middle school education. It also suggests for a robust system of continuous, formative/adaptive assessment to track individualized learning and academic progress.

The academic loss due to Covid -19 pandemic has created a huge learning deficit and students are lagging behind in terms of learning outcomes. Learning Outcomes serve as benchmark for students' achievement in each class and subject. The Learning Outcomes for each class in Languages (Hindi, English and Urdu), Mathematics, Environmental Studies, Science and Social Science up to the elementary stage (Class 1 to 8) have been developed by NCERT and adapted by SCERT Delhi.

To bridge the learning gaps caused by the pandemic and to improve learning levels of students, SCERT Delhi has developed worksheets based on learning outcomes for class 3, 5 and 8. The worksheets for class 3 and 5 have been developed for subjects: Mathematics, Environment Studies and Languages (Hindi & English) and for class 8, Science Mathematics, Social Science and Languages (Hindi & English). Each subject has 10 worksheets with 15 MCQs for each worksheet.

These worksheets are provided for practice purpose to improve the competencies of students. These are exemplar and teachers can frame similar worksheets/questions for practice. Guidelines for teachers are also there in each subject booklet to help teachers get better understanding of objectives and content of the worksheets.

It gives me immense pleasure to hand over these worksheets to teachers, our nation builders who are striving and working hard to impart quality education to students. We all as stakeholders need to work collectively to facilitate our students to attain higher order competencies including critical thinking, creativity, problem solving skills so that they are able to meet contemporary needs and can become responsible citizens who can further contribute for national development and be ready to tackle global challenges.



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## Science Worksheets Based on Learning Outcomes (Class–8)

### Guidelines for Teachers

1. SCERT Delhi has developed worksheets based on learning outcomes for the purpose of practice only.
2. There are ten (10) worksheets of fifteen (15) Multiple Choice Questions (MCQs) each.
3. First seven worksheets are based on 3 chapters each and the last three worksheets are based on the complete Text Book.
4. Each question is having four choices one of them being the correct answer. The students are to mark the correct answer appropriately using (✓) marks

**For example–**

**Which of the following is the body temperature of a healthy person?**

- A) 99.0°F
  - ✓ B) 98.6°F
  - C) 98.0°F
  - D) 98.2°F
5. Answer key is given at the end of the worksheets.
  6. You as teacher can explain the logic behind the correct answer.
  7. The teacher should provide ample time for the completion of worksheet.
  8. Teacher must ensure that each student attempt all the questions.
  9. Please don't give any clue in finding out the correct answer to the question.
  10. You are advised to prepare more such practice worksheets for the students.
  11. Teachers should keep a record of the progress of all the students and try to improve the learning outcomes



# SCIENCE

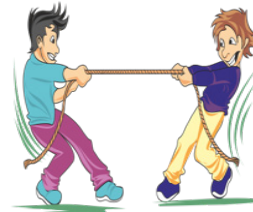
Worksheet-1

Class : 8

- The best time for removal of weeds is-**  
A) after they produce flowers and seeds. B) after adding manure.  
C) before they produce flowers and seeds. D) before adding manure.
- A fibre whose source was an insect was discovered in China. It had a beautiful texture and was kept secret for a long time. This fibre was:**  
A) Acrylic B) Silk C) Rayon D) Cotton
- Look at the pictures below and then answer-**



(a)



(b)

- A) Picture (a) is Push and picture (b) is Pull  
B) Picture (a) is Pull and picture (b) is Push  
C) Both (a) and (b) are examples of pull  
D) Both (a) and (b) are examples of push
- Which group contains the crops grown in rainy season-**  
A) Paddy, Maize, Soyabean, Groundnut  
B) Paddy, Maize, Wheat, Groundnut  
C) Paddy, Gram, Maize, Groundnut  
D) Paddy, Maize, Mustard, Groundnut
- Nylon was the first fully synthetic fibre prepared from**  
A) plastic, oil, wood B) water, polythene, tin  
C) coal, water, air D) wood, paper, coal tar
- When a force is applied on an object it can cause:**  
I. a change in its speed  
II. a change in its shape  
III. a change in its directions  
A) I and II only B) II and III only C) I, II and III D) I and III only

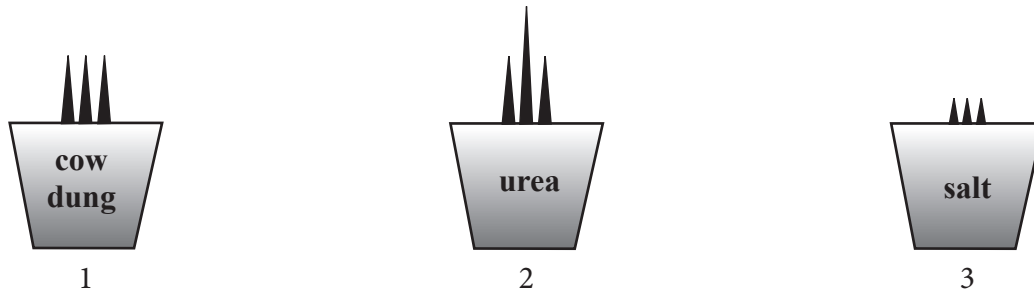
7. Choose the correct pair of agricultural tools and the work for which it is used in the crop field

	Column I	Column II
A)	Hoe	Tilling of soil
B)	Seed drill	Sowing of seeds
C)	Leveller	Threshing of crop
D)	Plough	Irrigating field

8. In the regions where availability of water is poor, the best method of irrigation which is useful to conserve water is-

- A) Pulley system    B) Chain Pump    C) Drip system    D) Sprinkler

9. Three pots are marked 1, 2, 3. A little amount of soil is filled in them and 3-4 moong seedlings of equal length are planted in each. In pot 1 Cow dung is added, in pot 2 Urea is added and in pot 3 Salt is added After a few days, the following was observed as shown in picture below.



Which substance is responsible for fastest growth?

- A) Compost    B) Manure    C) Fertiliser    D) Vermicompost

10. In a class, a teacher kept some waste things on a table and asked 4 students to pick up various things on the basis of a common property told by her.

Following were picked up by students.

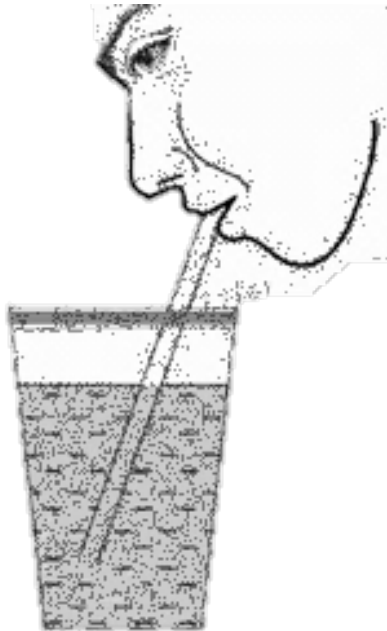
Student	Waste things picked up
Rajni	paper, peels of vegetables and fruits
Arvind	cotton cloth, wood, paper
Razia	woollen cloth, leftover foodstuff
Mehak	tin can, plastic bag, steel plate

Who among these students selected only non-biodegradable wastes?

- A) Rajni    B) Arvind    C) Razia    D) Mehak

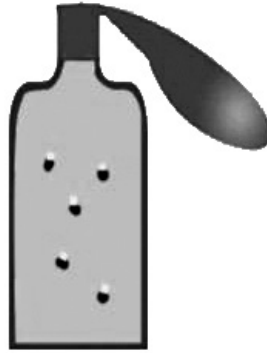


11. **Karan's mother bought some biscuits which were packed in a plastic jar. After the jar became empty, she used it for storing sugar, what can be the most appropriate reason for selecting this jar:**
- A) it is light, strong and durable
  - B) it is hard, heavy and opaque
  - C) it is attractive and beautiful
  - D) it is costly and biodegradable
12. **We can change the direction of a moving car by**
- A) Reducing friction
  - B) Increasing friction
  - C) Applying force
  - D) Without any effort
13. **A boy is using a straw to drink water from a glass. The glass is fully filled and sealed at the top. On sucking through the straw, the water is not rising up. What might be the reason for it?**



- A) The water never rises against gravity.
- B) The air pressure inside the glass is atmospheric pressure.
- C) He is unable to create pressure difference since the glass is fully filled and sealed.
- D) He may be standing on a mountain where pressure is low.

14. Observe the given figure showing a container filled with air that has a balloon attached at its opening. If the container is heated, what will you notice about the balloon?



- A) The balloon will shrink.                      B) The balloon will expand a little.  
C) Nothing will happen to the balloon.      D) The balloon will expand and burst.
15. Nylon thread is used for making parachutes and ropes for rock climbing because
- A) it is cheap and easily available              B) it is crisp and easy to wash  
C) it is stronger than steel wire                D) it does not wrinkle easily

# SCIENCE

Worksheet-2

Class : 8

1. A Blue colour solution(Q) was added in a container(P).After sometime the blue colour of the solution changed to light green and a red layer was deposited on the sides of the container. Name the metal of which the container P is made of and also the solution Q.

- A) Copper, Sulphate Copper                      B) Iron, Sulphate, Iron  
C) Iron, Copper sulphate                      D) Copper, Iron sulphate

2. Raj lives in Delhi. During his summer vacation he conducted an experiment on growth of mould. He sprinkled a few drops of water on two similar slices of bread X and Y. He then placed bread X in the Freezer and bread Y in the kitchen.

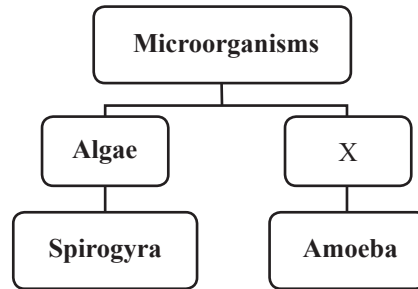
He noted down his observations in the given table :

Day	OBSERVATION	
	BREAD 'X'	BREAD 'Y'
2	No coloured Patch	One small green coloured patch
4	No coloured Patch	Two –three small green coloured patches
6	No coloured Patch	Patches grew bigger in size
8	No coloured Patch	Patches grew bigger in size and changed colour from green to black

The aim of this experiment was to find out the effect of ..... on the growth of mould

- A) Air                      B) Food                      C) Water                      D) Temperature
3. In which of the following conditions you will try to grow yeast for better results?
- A) Cold conditions (4°C as in the refrigerator)  
B) Warm conditions (40-50°C)  
C) Hot conditions (90°C)  
D) Boiling Hot conditions (more than 100°C)
4. Which of the following events can be caused by an Earthquake?
- I. Tsunami  
II. Landslide  
III. Drought  
IV. Floods
- A) I, II & III                      B) I, II & IV                      C) II, III & IV                      D) I, III & IV

5. Study the diagram shown here:

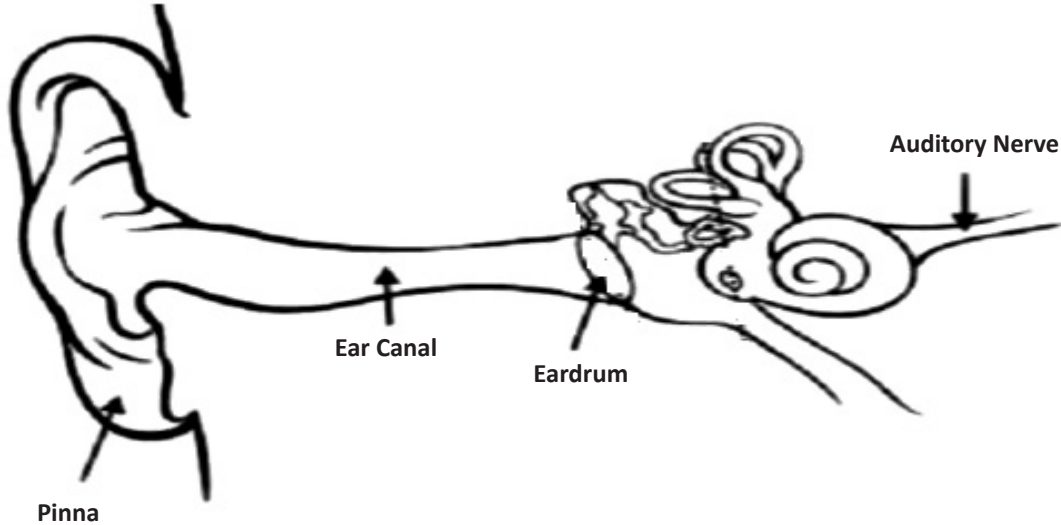


Identify 'X':

- A) Bacteria      B) Virus      C) Protozoa      D) Fungi
6. Why are lemon pickles not kept in aluminium vessels?  
 A) Aluminium makes the pickle sweet  
 B) Aluminium and acid react to spoil the pickle  
 C) Aluminium and acid will react and create holes in vessel  
 D) Both B and C
7. If you are at school and earthquake occurs, what precaution can you take to protect yourself?  
 A) Use lift to get outside and run.  
 B) Stand with your back against a wall.  
 C) Get under a table until the shaking stops.  
 D) Start running in the classroom.
8. Which natural phenomenon helps in Nitrogen fixation?  
 A) Earthquake      B) Lightning      C) Cyclone      D) Tsunami
9. During rainy season a student found an umbrella shaped organism 'P' growing on a moist wooden log in the school garden.  
 Which one of the following pairs is correct for 'P'?
- |    | Type of Organism | Nutrition                        |
|----|------------------|----------------------------------|
| A) | Flowering plant  | makes own food                   |
| B) | Fungus           | Feeds on dead organic substances |
| C) | Algae            | does not make own food           |
| D) | Protozoa         | eats small organisms             |
10. Arrange Copper, Silver, Calcium and Aluminium metals in decreasing order of reactivity.  
 A) Copper, Silver, Calcium, Aluminium      B) Calcium, Aluminium, Silver, Copper  
 C) Aluminium, Copper, Silver, Calcium      D) Calcium, Aluminium, Copper, Silver
11. When two bodies are rubbed against each other, they acquire \_\_\_\_\_  
 A) Equal and like charges      B) Equal and unlike charges  
 C) Unequal but like charges      D) Unequal and unlike charges



1. Which part of the ear as shown in the diagram resembles the membrane of a 'Tabla'?



- A) Pinna                      B) Eardrum                      C) Ear canal                      D) Auditory Nerve
2. Soumya has noticed that the sound of the bell of the clock tower next to her house is clearer at night. The correct reason for her observation is
- A) At night, sound travels faster.  
B) At night, sound is heard by more people  
C) At night, there is no outside disturbance  
D) At night, our ears become more sensitive
3. During an activity, a ringing bell is kept inside a bell jar. Then the air is removed from the bell jar. The sound of the ringing bell gradually becomes inaudible. Why?
- A) The bell stops vibrating.                      B) The medium is absent.  
C) Sound travels slower in air.                      D) Bell jar absorbs the sound
4. What would you advise to reduce noise pollution in residential areas?
- A) Allowing industries to set up nearby  
B) Setting up of more traffic signals  
C) Putting loudspeakers on street pillars  
D) Planting trees on the roadside.

5. The table given below has certain terms and four blank spaces named P, Q, R and S.

Cell	Feature/part	Function
Amoeba	P	Movement
Plant cell	Plastid	Q
R	Spindle shaped	Contraction
Nerve cell	S	Stimuli and Response

From the options given below choose the correct combination of terms.

- A) P-Pseudopodia; Q-Respiration; R-Muscle cell; S-Branched  
 B) P-Pseudopodia; Q-Photosynthesis; R-Muscle cell; S-Branched  
 C) P-Contractile vacuole; Q-Photosynthesis; R-Blood cell; S-Spindle shaped  
 D) P-Pseudopodia; Q-Photosynthesis; R-Cheek cell; S-Spindle shaped
6. Identify the correct pair:

	Unicellular organisms	Multicellular organisms
A)	can be seen with microscope	can be seen only with naked eyes
B)	can be seen with microscope and naked eyes	can be seen only with microscope
C)	complete life functions with one cell	have numbers of specialized cells to perform a variety of life functions.
D)	have a number of identical cells that all perform the same function	have cells that are different and perform different functions.

7. Structure which is found in both plants and animals and regulates the flow of substances in and out of the cell is:-  
 A) Vacuole                      B) Cell Membrane    C) Nucleus                      D) Plastid
8. While preparing the onion peel slide the teacher used a coloured solution to stain it. Why do you think this stain was used?  
 A) To hide some of the cell parts.                      B) To increase the size of some cell parts.  
 C) To make some cell parts less visible.                      D) To make some cell parts more visible.
9. A by-product is obtained during refining of Petroleum which is used for road surfacing. The by-product is  
 A) Kerosene                      B) Bitumen                      C) Petrol                      D) Diesel
10. Which of the following statement is correct about fossil fuels?  
 A) Their burning does not cause pollution in the atmosphere.  
 B) They get formed from dead matter beneath Earth's surface.  
 C) They are available in refined form for immediate usage.  
 D) They can be extracted from any part of the Earth.

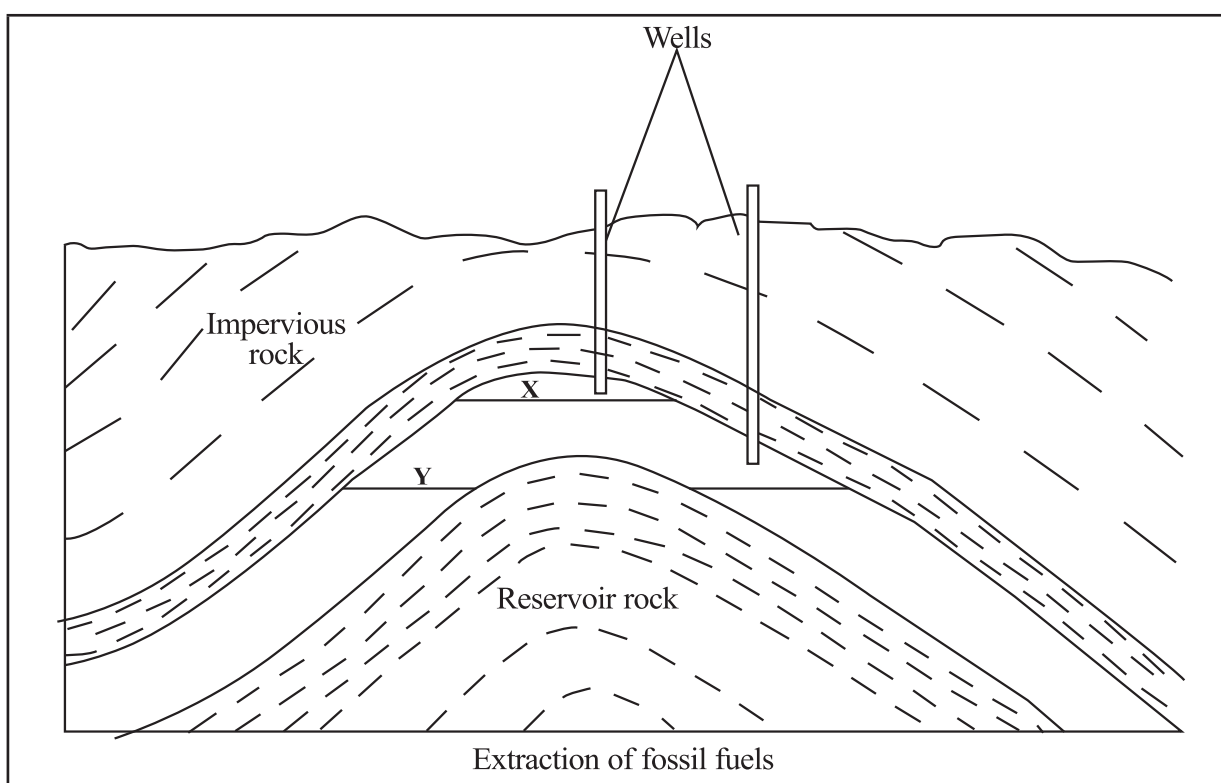
11. Which of the following do you think is/are advisable to conserve the exhaustible resources?

- I. We shall switch off the engine of the vehicles at red lights.
  - II. Everyone should use their own separate vehicles for travelling.
  - III. All residential units should be equipped with solar energy utilisation.
  - IV. All types of factories shall be inside residential areas.
- A) I and II                      B) II and III                      C) I and III                      D) III and IV

12. Which of the following groups of substances contain products of fractional distillation of petroleum only?

- A) CNG, LPG, Methane                      B) petrol, diesel, kerosene  
 C) paraffin wax, bitumen, coal                      D) coke, coal-tar, coal gas

13.



Observe the given diagram carefully and identify X and Y

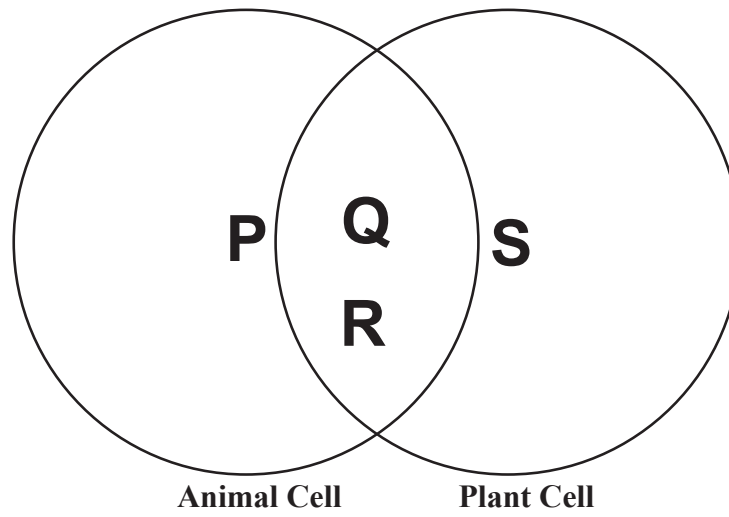
	X	Y
A)	natural gas	petroleum
B)	petroleum	water
C)	sand	natural gas
D)	petroleum	natural gas

14. Which of the following instruments can be used to observe onion peel cells?

- A) Stethoscope                      B) Microscope                      C) Periscope                      D) Telescope



15. This diagram shows an animal cell and a plant cell. P, Q, R, S are the various structures present in the cells. Some structures are found in both cells and some structures are found only in plant or animal cell.



Which of the following combination is the correct order of P,Q,R,S?

- A) cell membrane,nucleus,small vacuoles, large vacuole
- B) nucleus,small vacuoles, large vacuole,cell membrane
- C) large vacuole,cell membrane, nucleus,small vacuoles
- D) small vacuoles,cell membrane, nucleus,large vacuole

# SCIENCE

Worksheet-4

Class : 8

1. The correct sequence of events during human reproduction is:

- A) gamete formation, fertilisation, zygote, embryo
- B) embryo, zygote, fertilisation, gamete formation
- C) fertilisation, gamete formation, embryo, zygote
- D) gamete formation, fertilisation, embryo, zygote

2. Meena has to push an empty wooden box and Reena has to push an empty iron box of similar shape and size. Who will have to apply more force to move the box?

- A) Meena
- B) Reena
- C) Both will apply equal force.
- D) No force needed at all.

3. The given table gives some of the substances along with their calorific values and ignition temperature.

Substances	Calorific value (KJ/g)	Ignition temperature (°C)
I.	100	5
II.	80	50
III.	50	60
IV.	20	70

Which one can be used as a fuel?

- A) I
- B) II
- C) III
- D) IV

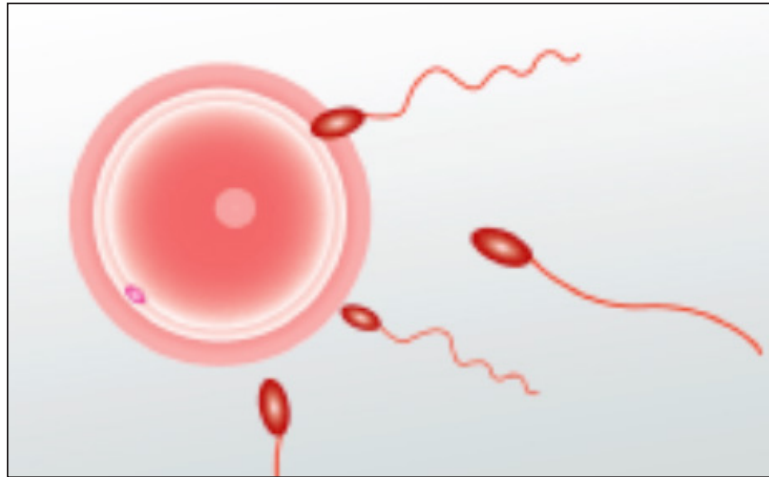
4. Which of the following are reproductive cells in human beings?

- 1. Egg
- 2. Testis
- 3. Ovary
- 4. Sperm

- A) 1 and 3 only
- B) 3 and 4 only
- C) 1 and 4 only
- D) 2 and 3 only

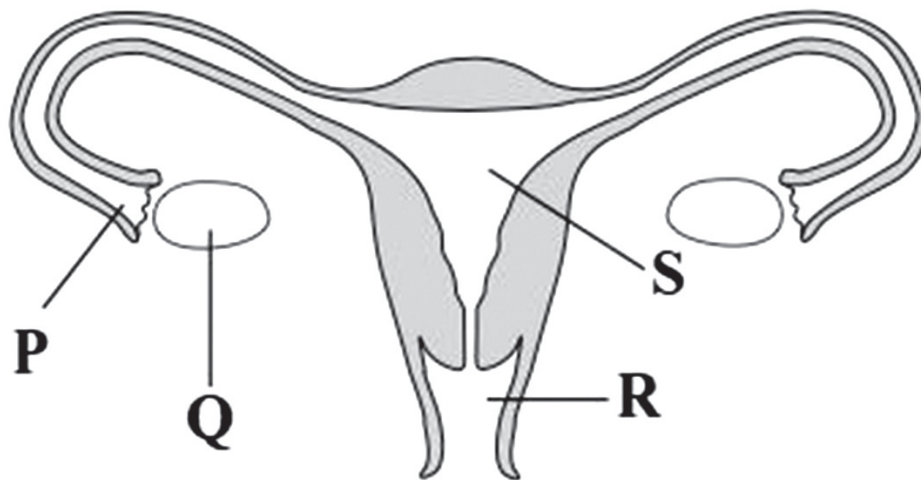
5. **Objects like vehicles, aeroplane, ship etc are given special shapes to make them minimize loss of energy and**
- A) Decrease friction
  - B) Increase friction
  - C) Increase pressure
  - D) Both A and B
6. **Water is unsuitable for extinguishing fires involving oil and petrol because**
- A) water is lighter than oil so it floats above the oil
  - B) water is heavier than oil so it goes below the oil
  - C) water is equally dense as oil so it mixes with the oil.
  - D) water is a good conductor of heat.
7. **Animals exhibiting external fertilisation produce a large number of gametes. Pick the appropriate reason from the following**
- A) The animals are small in size and need to produce more offspring.
  - B) Food is available in plenty in water.
  - C) To ensure a better chance of fertilisation.
  - D) Water promotes production of a large number of gametes.
8. **Arrange types of frictional forces in their decreasing order**
- A) Rolling, Static, Sliding
  - B) Rolling, Sliding, Static
  - C) Static, Sliding, Rolling
  - D) Sliding, Static, Rolling
9. **The innermost zone of candle flame is least hot due to :**
- A) absence of oxygen
  - B) presence of wick
  - C) presence of unburnt carbon particles
  - D) absence of unburnt carbon particles

10. Observe the diagram given below. What is happening here?



- A) Pollination: Many sperms will enter the egg.
- B) Fertilisation: Only one sperm will fertilise the egg.
- C) Fertilisation: Many sperms will fertilise many eggs.
- D) Pollination: only one sperm will enter the egg.

11. After the egg is fertilised, where does the fertilized egg develop?



- A) Fertilized egg develops at R
- B) Fertilized egg develops at S
- C) Fertilized egg develops at P
- D) Fertilized egg develops outside the body

12. **During operation of a machine it becomes hot due to friction, this**

- A) leads to wastage of energy
- B) helps in saving energy
- C) leads to increase in friction
- D) helps in decreasing friction

13. **Choose the correct pair of explanation:**

I	Rapid Combustion	The gas burns rapidly and produces heat and light
II	Explosion Combustion	Material suddenly bursts into flames
III	Spontaneous Combustion	Large amount of gas formed in the reaction is liberated

- A) only I                      B) only II                      C) both I and II                      D) both II and III

14. **A child runs her toy car on a piece of cardboard , a wet marble floor, a dry marble floor and a carpet.The different surfaces according to force of friction acting on the car in increasing order are :**

- A) Piece of cardboard, carpet, wet marble floor, dry marble floor
- B) Carpet, Piece of cardboard, dry marble floor, wet marble floor
- C) Wet marble floor, Dry marble floor, Piece of cardboard, carpet
- D) Carpet, wet marble floor, piece of cardboard, dry marble floor

15. **We should avoid burning of paper bits and dry leaves in open ground because it would:**

- A) Release oxygen causing global warming.
- B) Release carbon monoxide causing global warming.
- C) Release Carbon dioxide causing global warming.
- D) Release hydrogen gas causing global warming

# SCIENCE

Worksheet-5

Class : 8

1. Four students took same quantity of distilled water in similar cups. They mixed different substances to the cups as mentioned below-

Student P	Common Salt
Student Q	Sugar
Student R	Lemon Juice
Student S	Flour

Whose solution will conduct electricity?

- A) Students P & Q    B) Students Q & R    C) Students P & R    D) Students R & S
2. Some birds fly long distances from several parts of the world and reach the Tawa Reservoir every year. Such birds are called migratory birds. Migratory birds leave their homes when weather in their natural habitat becomes very cold and inhospitable. What is the main purpose of migration of birds?
- A) getting food    B) laying eggs    C) body growth    D) adaptation
3. The Taj Mahal in Agra is made of white marble. It is affected by a phenomenon called "Marble Cancer". What causes this?
- A) Sewage water    B) Acid rain  
C) Greenhouse effect    D) Global warming
4. When current is passed through a conducting solution, chemical reaction takes place. Which of the following observations is a result of chemical effects of current?
- A) Bubbles of gas on electrodes    B) Deposition of metal on electrodes  
C) Formation of an insoluble residue    D) Both A and B
5. Mohit's class teacher asked all students to bring old newspapers. She explained how to prepare fresh sheets of paper from them. This is known as
- A) Reduce    B) Reuse    C) Refuse    D) Recycle

6. **Water used for washing vegetables may be used to water plants in the garden. This is an example of**
- A) Reduce                      B) Reuse                      C) Recycle                      D) Refuse
7. **CFLs are less eco friendly lighting source over LEDs because**
- A) they consume less energy  
B) LEDs last longer  
C) they are not easily available  
D) they contain poisonous mercury
8. **What is prohibited in National Parks and Sanctuaries?**
- A) Growing plants and trees                      B) Protecting wild animals  
C) Hunting and poaching                      D) Allowing encroachment
9. **Smoke may contain oxides of nitrogen which combine with other air pollutants and fog to form**
- A) Rain                      B) Smog                      C) Cloud                      D) Snow
10. **Distilled water is poor conductor of electricity because**
- A) it is free of odour                      B) it is free of gases  
C) it is free of germs                      D) it is free of salts
11. **Ramesh's class teacher was telling the students in the class how plastics thrown out in the open harm their ecosystem. Ramesh and his friends decided to go to a nearby park next Sunday and pick up plastics strewn around.**
- Plastics harm the environment because they are**
- A) non-biodegradable                      B) biodegradable  
C) petroleum products                      D) non-toxic products
12. **Red Data Book is a source book which keeps a record of all the**
- A) extinct plants and animals                      B) endangered plants and animals  
C) animals in biosphere reserves                      D) migrating wild animals
13. **Which of the following is an alternative source of energy?**
- A) Coal                      B) Petrol                      C) Natural Gas                      D) Sunlight





# SCIENCE

Worksheet-6

Class : 8

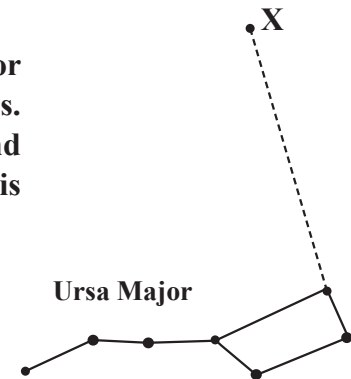
1. Shalu is fond of eating chips and burgers. Her brother often stops her from eating such packed food and tells her to eat a regular balanced meal instead of packed foods. He tells her that packed foods are not good for health because they are

- A) of inadequate nutritional value
- B) tasteless and stale
- C) costly and not easily available
- D) unhygienic foods

2. We see moon because it

- A) receives light from the sun and then refracts it.
- B) receives light from planets and then reflects it.
- C) receives light from the sun and then reflects it.
- D) It has its own light and then reflects it.

3. Given below is the diagram of constellation Ursa Major or Saptarishi showing the arrangement of the group of seven stars. Imagine a straight line passing through the two stars at the end of Ursa Major. Which star can be located with the help of this imaginary line?

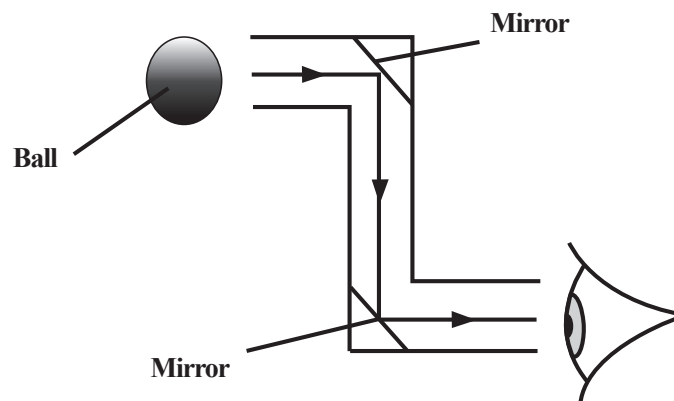


- A) Sirius
- B) Moon
- C) Alpha Centauri
- D) Pole star

4. Reproductive life of a woman lasts from

- A) Puberty to Menarche
- B) Childhood to Adolescence
- C) Menarche to Menopause
- D) Menopause to Menarche

5. The diagram below shows a Periscope



Which of the following statement correctly describes why we can see the ball through a periscope:

- A) The ball is a light source  
 B) The mirrors reflect light.  
 C) The ball can form a shadow.  
 D) Light travels in a curved line

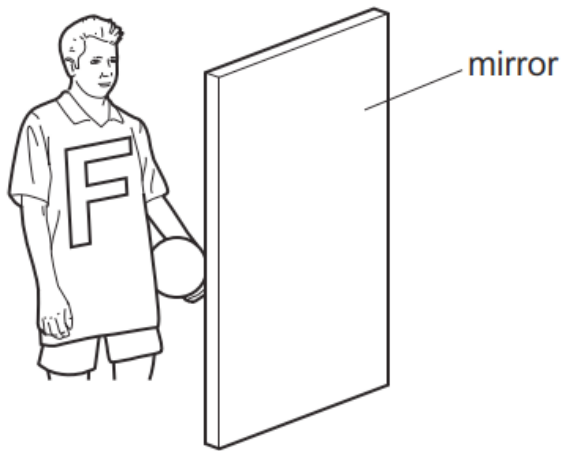
6. Which one is a correct pair among the following?

- A) Morning star - Mars  
 B) Red planet - Venus  
 C) Least dense planet - Saturn  
 D) Largest planet - Uranus

7. Early marriage is not good for a couple because

- A) It causes health problems to couple  
 B) It causes mental agony to couple  
 C) It involves lot of expenditure  
 D) Both A and B

8. A boy wears a shirt with a letter F on the front. He stands in front of a plane mirror. How does he see letter F in the mirror? Select one of the following:



A)	
B)	
C)	
D)	

9. Weather forecasting, long distance communication and remote sensing is possible with the help of

- A) Natural satellite  
 B) Artificial satellites  
 C) Asteroid Belt  
 D) Meteor showers

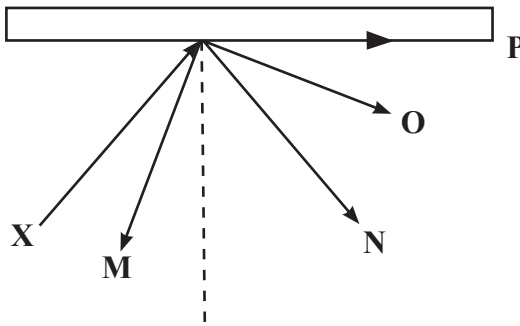
10. Rama, Raj and Saba tabulated the sex determination of an unborn child as shown below-

Student	Female chromosome	Male Chromosome	Sex of unborn child
Rama	X	X	Female
Raj	X	Y	Male
Saba	Y	X	Female

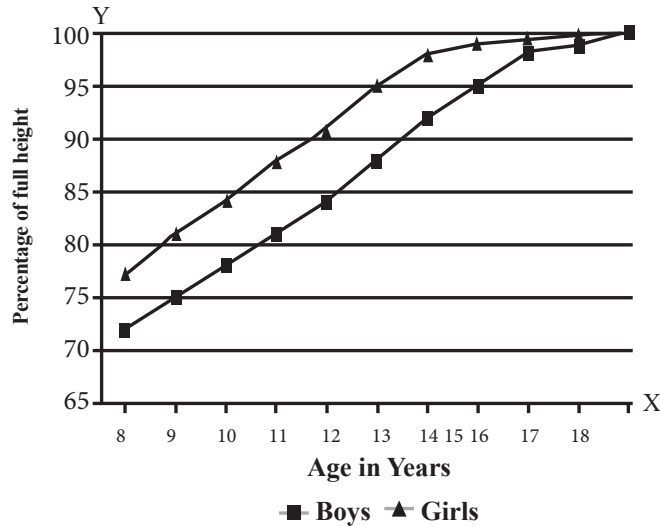
Which student/s mentioned the correct pair of chromosomes for sex determination of an unborn child?

- A) Rama and Raj  
 B) Raj and Saba  
 C) Rama and Saba  
 D) Only Saba

11. The diagram shows the path of a light ray X, directed at a plane mirror. The correct reflected ray is



- A) Ray M      B) Ray N      C) Ray O      D) Ray P
12. It is not possible to hear any kind of sound on the moon. This is because of absence of  
 A) Water      B) Atmosphere      C) Soil      D) Sunlight
13. Following graph shows percentage of height with age-



With reference to the graph, find out the percentage of full height Reena and Raju might reach at the age of 15 years.

- A) Reena -98 % and Raju -92 %      B) Reena- 91% and Raju -84 %  
 C) Reena-99% and Raju -95 %      D) Reena-81 % and Raju-75 %
14. Raghu’s Science teacher told the class that till 2006 there were nine planets in the solar system. Now there are only eight planets in the solar system. One planet did not fit the description of the definition of a planet and was removed.  
 This planet was  
 A) Jupiter      B) Saturn      C) Neptune      D) Pluto
15. If the angle of incidence is  $60^\circ$ , then the angle between the incident ray and reflected ray will be  
 A)  $30^\circ$       B)  $60^\circ$       C)  $90^\circ$       D)  $120^\circ$

# SCIENCE

Worksheet-7

Class : 8

1. Which of the following is responsible for making bread soft and fluffy?
- A) Nitrogen given off during fermentation of sugar
  - B) Oxygen given off during fermentation of sugar
  - C) Alcohol given off during fermentation of sugar
  - D) Carbon dioxide given off during fermentation of sugar
2. If synthetic clothes catch fire, the fabric melts and sticks to the body of the person wearing it.

So we should not wear such clothes while

- A) Manuring and weeding plants
  - B) Washing clothes in a laundry
  - C) Preparing food in the kitchen
  - D) Studying books inside a library
3. In the given picture magnet attracts iron nail because of
- A) Contact force and push
  - B) Non-contact force and push
  - C) Contact force and pull
  - D) Non-contact force and pull



4. The two columns show the microorganisms classified into two categories:

Column I	Column II
Lactobacillus	Salmonella
Penicillium	HIV
Rhizobium	Vibrio cholerae

These microorganisms are classified on the basis of which criteria ?

- A) structures
- B) usefulness and harmfulness
- C) their nutrition
- D) their habitat

5. In a class, the teacher asked four students to bring different types of cloth pieces of equal size (2X2 feet). They were provided with a bucket having equal quantities of water. Then the four students soaked their pieces of cloth in the water for 15 minutes. The material of cloth pieces of the 4 students are given in the table below :

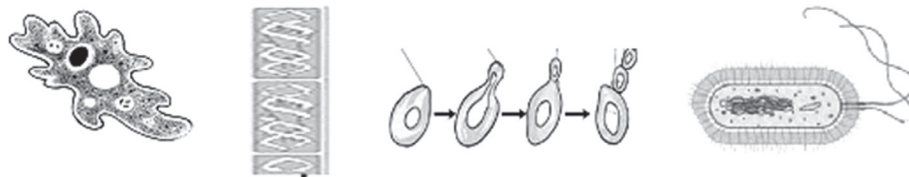
Student I	Acrylic
Student II	Polyester
Student III	Cotton
Student IV	Rayon

Whose cloth piece do you think will absorb the maximum amount of water?

- A) Student I      B) Student II      C) Student III      D) Student IV
6. A stone thrown upward from ground falls back because of
- A) Frictional force      B) Electrostatic force  
C) Gravitational force.      D) Muscular force
7. The process that takes place when yeast is added to grape juice and left for a week is
- A) Decomposition      B) Fermentation  
C) Distillation      D) Oxidation
8. Choose from the following things which gets deformed easily on heating and can be bent easily
- A) Melamine      B) Bakelite      C) Terrycot      D) Polythene
9. Look at the figure and then answer :  
On applying the force in the given direction , the speed of the car will



- A) Remain Constant      B) increase first then decrease  
C) Decrease only      D) Decrease first then increase
10. Find the correct sequence of the groups to which these microorganisms belong-



- A) Bacteria, Fungi, Protozoa, Algae      B) Protozoa, Algae, Fungi, Bacteria  
C) Fungi, Bacteria, Protozoa, Algae      D) Protozoa, Bacteria, Fungi, Algae

11. **What is the most appropriate reason for making handles of frying pans of bakelite?**
- A) Bakelite handle provides a good grip to hold the pan.
  - B) Bakelite handles look very beautiful and attractive.
  - C) Bakelite does not get heated very soon.
  - D) Bakelite handles can be given many different shapes.
12. **Needles are made sharp to**
- A) Decrease pressure
  - B) Increase pressure
  - C) Decrease pull
  - D) Increase area
13. **Which of the following is different from the other three?**
- A) Mushrooms
  - B) Lactobacillus in curd
  - C) Yeast for baking
  - D) Mould on bread
14. **Given below are some boxes in which information about a synthetic fibre is mentioned.**

Resembles wool in appearance

Used to make sweaters, shawls and blankets

Relatively cheap

On burning, melt and stick to body

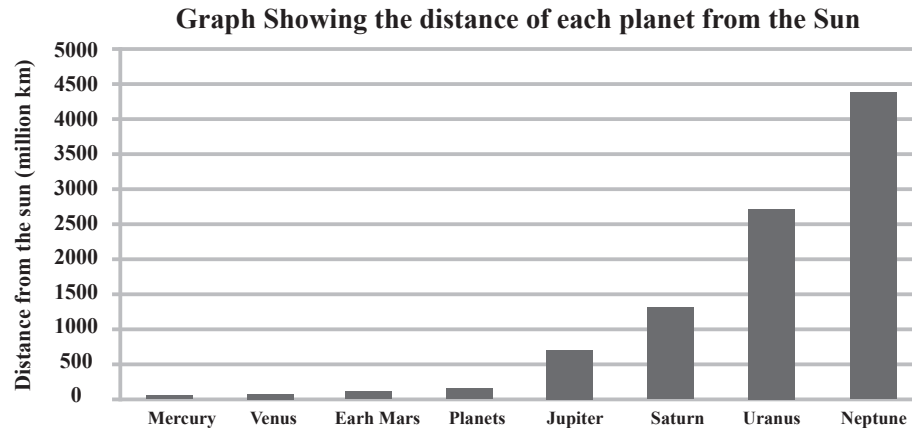
Easy to wash and need low maintenance

**To which of the following synthetic fibre can you relate all the given information with?**

- A) Acrylic
  - B) Polywool
  - C) Polyester
  - D) Rayon
15. **Pressure exerted by air around us is known as**
- A) Gas pressure
  - B) Air pressure
  - C) Atmospheric pressure
  - D) Vapour pressure



8. Given below is a graph showing the distance (in million km) of each planet from the Sun in the solar system. Look at the graph carefully and answer the questions that follow.



- (i) How many planets are there in the solar system?  
 A) 5                      B) 6                      C) 8                      D) 9
- (ii) Which planet is located nearest to the Sun?  
 A) Mercury    B) Venus                      C) Uranus                      D) Neptune
- (iii) What is the distance of Neptune from the Sun?  
 A) 3800 million km                      B) 4000 million km  
 C) 4200 million km                      D) 4400 million km
- (iv) Which planet is located at a distance of around 1300 million km from the Sun?  
 A) Earth                      B) Saturn                      C) Mars                      D) Jupiter

9. Read the following chart:

Age (in years)	% of full height in boys	% of full height in girls
10	78 %	84 %
11	81 %	88%
12	84 %	91 %
13	88%	95%
14	92%	98%

Now, answer the following question using the formula for calculation of full height

(Present height / % of full height at the given age X 100)

A girl is 10 years old and 130 cm tall. At the end of growth period her height is likely to be

- A) 153.7 cm                      B) 154.7 cm                      C) 156.7 cm                      D) 157.7 cm



10. **Some students are discussing about light. Which one of their views do you think is true?**
- A) Student A says: We can see light as it allows us to see everything around us.
  - B) Student B says: Light is an object that travels but it can only travel in a straight line.
  - C) Student C says: Light is a substance produced by luminous objects and gets reflected by non-luminous objects.
  - D) Student D says: We can see things around us as light is reflected by objects on which it falls.

11. **Given are the two lists, List 1 and List 2.**

LIST 1	LIST 2
AMOEBA	ONION
PARAMECIUM	HEN

**How have the above two lists been categorized?**

- A) List 1 consists of multicellular organisms and List 2 consists of unicellular organisms
  - B) List 2 consists of multicellular organisms and List 1 consists of unicellular organisms
  - C) List 1 and List 2 both consists of multicellular organisms
  - D) List 1 and List 2 both consists of unicellular organisms
12. **Humans can hear the sounds in the range of**
- A) 2-20 Hz
  - B) 20-2000 Hz
  - C) 20-20000 Hz
  - D) 200-20000Hz
13. **Asteroids are a large number of small objects that are found in a gap between orbits of Mars and Jupiter. They are located very far away and cannot be seen with naked eyes. They can only be seen through large devices called**
- A) Binocular
  - B) Microscope
  - C) Kaleidoscope
  - D) Telescope
14. **Adam's apple in boys is**
- A) Larynx
  - B) Pharynx
  - C) Throat
  - D) Epiglottis
15. **Atmospheric pressure is due to the air around us. We are not crushed under the atmospheric pressure because**
- A) It has no effect on us.
  - B) pressure inside our body is equal to atmospheric pressure
  - C) pressure inside our body is more than atmospheric pressure
  - D) pressure inside our body is less than atmospheric pressure

# SCIENCE

Worksheet-9

Class : 8

1. **Which of the following are the correct methods of preservation?**
  - I. Boiling of milk
  - II. Adding salt to Amla
  - III. Adding vinegar to pickle
  - IV. Adding turmeric to vegetables.

A) (I) and (II) only                      B) (I), (II) and (IV) only  
C) (II), (III) and (IV) only            D) (I), (II) and (III) only
2. **Which of the following is a synthetic fibre?**

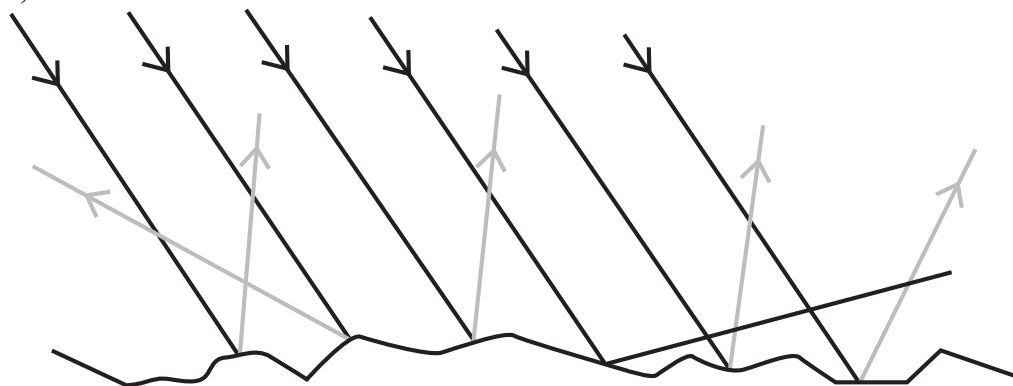
A) Cotton                      B) Jute                      C) Silk                      D) Nylon
3. **Electroplating is done generally to-**
  - A) protect metal from corrosion
  - B) increase the cost of metal being electroplated
  - C) to make metal eco-friendly
  - D) to make metal more reactive
4. **Students of a school were asked to create awareness in the neighbourhood regarding the impact of desertification on the ecosystem of the area. They formed small groups and organized awareness programmes in different localities. The consequences of desertification that they shared are**
  - A) increase in humus and microbes in soil
  - B) increase in fertile land and soil conservation
  - C) less rocky layers and good soil texture
  - D) less humus in the soil and soil erosion
5. **Smoke, dust, sulphur dioxide and nitrogen dioxide are major sources of pollution of**

A) Soil                      B) Water                      C) Air                      D) Noise
6. **Which of the following statement about reproduction in humans is true?**
  - A) Fertilisation takes place externally.
  - B) Fertilisation takes place in the testes.
  - C) During fertilisation the egg moves towards the sperm.
  - D) Fertilisation takes place in the human female.

7. **Combustible substances are unable to catch fire or burn if their temperature is :**  
A) Equal to its ignition temperature.      B) Higher than its ignition temperature.  
C) Lower than its ignition temperature.      D) Is equal to room temperature.
8. **The appearance of which celestial bodies is superstitiously thought of as a message of disasters like wars, epidemics and floods?**  
A) Comets      B) Meteors      C) Meteorites      D) Asteroids
9. **Which hormone is responsible for secondary sexual characters in girls at the onset of puberty?**  
A) Testosterone hormone      B) Growth hormone  
C) Estrogen hormone      D) Adrenaline hormone
10. **Algae are placed along with the autotrophs because they**  
A) spread disease      B) prepare their own food  
C) feed on dead organisms      D) feed on living organisms
11. **Which amongst the following can be used to make a tester that can detect weak current in a circuit?**  
A) Bulb      B) LED      C) Compass needle      D) Both B and C
12. **Variety of plants, animals and microorganisms generally found in a specific area is known as**  
A) Ecosystem      B) Biodiversity      C) Habitat      D) Sanctuary
13. **A good fuel should have high calorific value and a low ignition temperature. However, the ignition temperature must be**  
A) lower than room temperature      B) higher than room temperature  
C) higher than melting point      D) lower than boiling point.
14. **It is easier to roll than to slide an object because**  
A) Rolling reduces friction      B) Rolling increases friction  
C) Sliding reduces friction      D) Sliding increases friction
15. **Secretion of hormones of testes and ovaries is stimulated by**  
A) Thyroid gland      B) Adrenal gland  
C) Pituitary Gland      D) Pancreas



9. Although Chromium plating is done on many objects such as car parts, bath taps, gas burners etc. but it has to be disposed off according to specific guidelines because
- A) It is expensive  
B) It is hazardous for health  
C) It corrodes easily  
D) It gets scratched off easily
10. What precaution would you advise a person who is outside during lightning and thunder?
- A) To carry an umbrella  
B) Take shelter under a tall tree  
C) Squat low on the ground  
D) Stand under an electric pole.
11. A gas present in the atmosphere is produced from incomplete burning of fuels such as petrol and diesel. It is a poisonous gas. It reduces the oxygen carrying capacity of the blood Which gas is this?
- A) Carbon dioxide  
B) Carbon monoxide  
C) Nitrogen  
D) Oxygen
12. We see cows eating food waste from the garbage dumps. With the food material from the garbage sometimes they eat something due to which their respiratory system gets choked) This happens because they swallow ..... along with food.
- A) Paper bags  
B) Polythene bags  
C) Cotton bags  
D) Jute Bags
13. Microbes help to clean up the environment. Which of the following will best support this statement?
- I. Microbes can feed on sugar and produce alcohol and carbon dioxide gas  
II. Microbes can convert atmospheric nitrogen into nitrates which can be absorbed in the soil  
III. Microbes can feed on dead animals and plants and decompose them.
- A) I, and II only  
B) II and III only  
C) III only  
D) II only
14. When all the parallel rays reflected from an uneven surface like wall are not parallel to each other, It is known as



- A) Regular reflection  
B) Irregular reflection  
C) Refraction  
D) Shadow formation

15. Find out the correct pair of gland with its secreted hormone.

	Gland	Hormone secreted
I	Pituitary	Growth
II	Thyroid	Insulin
III	Testes	Estrogen
IV	Ovary	Testosterone

A) I

B) II

C) III

D) IV

# SCIENCE

Class : 8

## Science Class 8 Answer Key

Q. No.	Worksheet 1	Worksheet 2	Worksheet 3	Worksheet 4	Worksheet 5
1.	C	C	B	A	C
2.	B	D	C	B	B
3.	A	B	B	B	B
4.	A	B	D	C	D
5.	C	C	B	A	D
6.	C	D	C	B	B
7.	B	C	A	C	D
8.	C	B	D	B	D
9.	C	B	B	C	B
10.	D	D	B	C	D
11.	A	B	C	B	B
12.	C	D	B	A	B
13.	C	B	A	A	D
14.	B	C	B	C	A
15.	C	B	D	C	(i) D, (ii) B, (iii) C, (iv) A
Q. No.	Worksheet 6	Worksheet 7	Worksheet 8	Worksheet 9	Worksheet 10
1.	A	D	B	D	A
2.	C	C	A	D	A
3.	D	D	C	A	A
4.	C	B	A	D	D
5.	B	C	D	C	B
6.	C	C	C	D	B
7.	D	B	C	C	A
8.	B	D	(i) C, (ii) A, (iii) D, (iv) B	A	B
9.	B	C	B	C	B
10.	A	B	D	B	C
11.	B	C	B	D	B
12.	B	B	C	B	B
13.	C	B	D	C	C
14.	D	A	A	A	B
15.	D	C	B	C	A

