

Class 8th Term 2nd 2019 Science

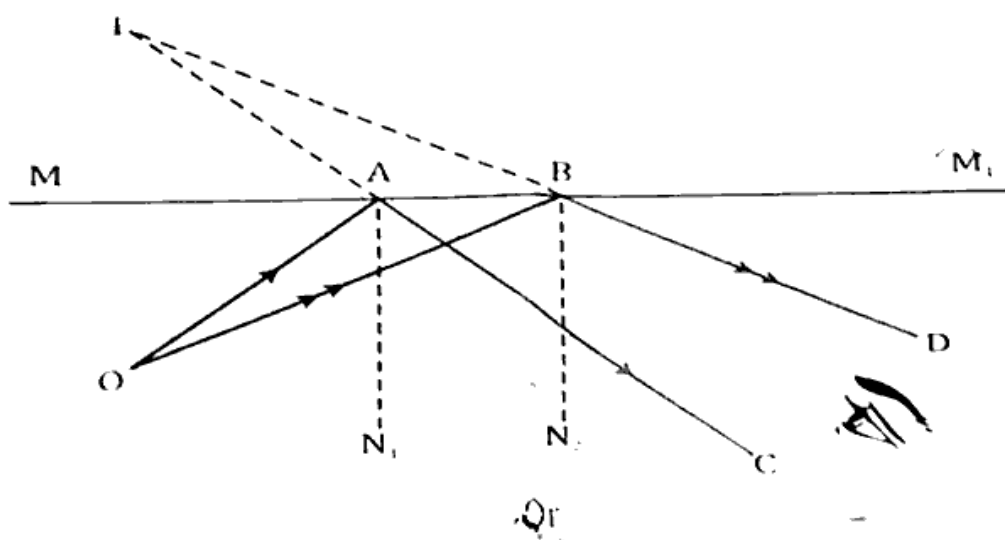
Series A

Time: 2:30 Hrs.

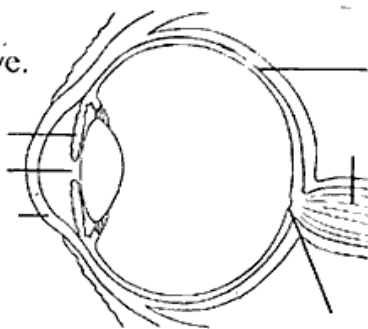
Max. Marks:40

Long Answer Type Questions.

- Q1) a) What is reflection of light? Draw a labelled diagram showing reflection of light by a plane mirror?
b) Write the characteristics of image I formed by a plane mirror MM_1 of object O as shown in figure.



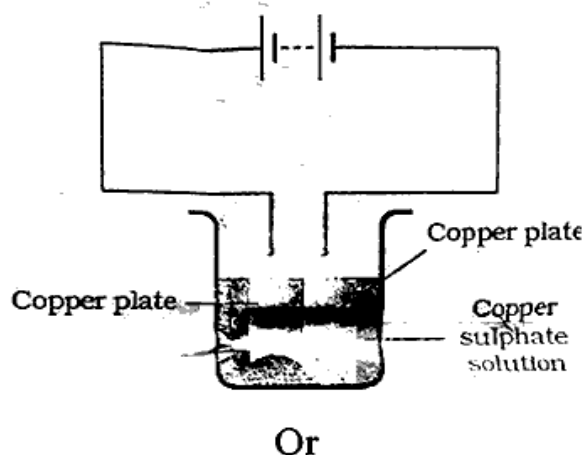
- a) Draw and label the given sketch of human eye.



- b) What is the significance of light-sensitive cells; the rods and the cones? What is blind spot?

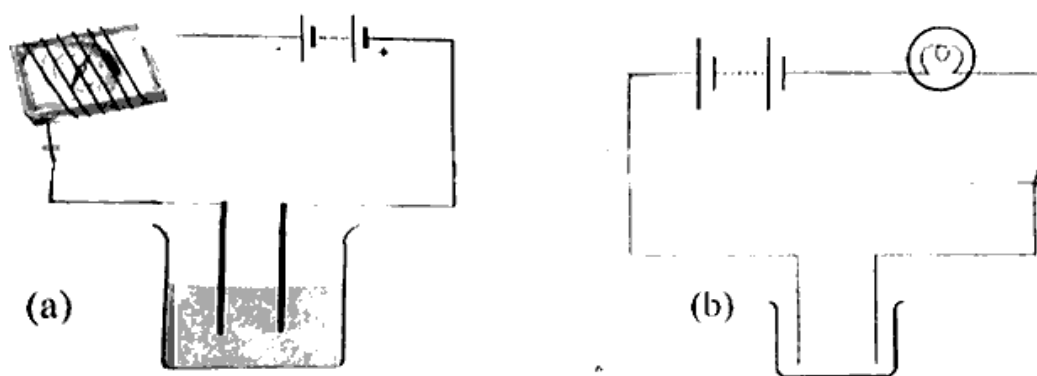
- Q2) The process of depositing a layer of any desired metal on another material by means of electricity is called electroplating. It is one of the most common applications of chemical effects of electric current and is widely used in industry for coating metal with a thin layer of a different metal. It is also used to purify metals. Write the

activity to purify impure copper metal. The circuit diagram to purify copper metal is given below.



The materials which allow electric current to pass through them are called good conductors of electricity and the materials which do not allow electric current to pass through them are called poor conductors of electricity. Electric current can also pass through liquids and to test whether a liquid allows electric current to pass through it or not, we pass electric current through the liquid to complete an electric circuit. To check the conductivity of the liquid a bulb or an LED or Compass in the circuit is used.

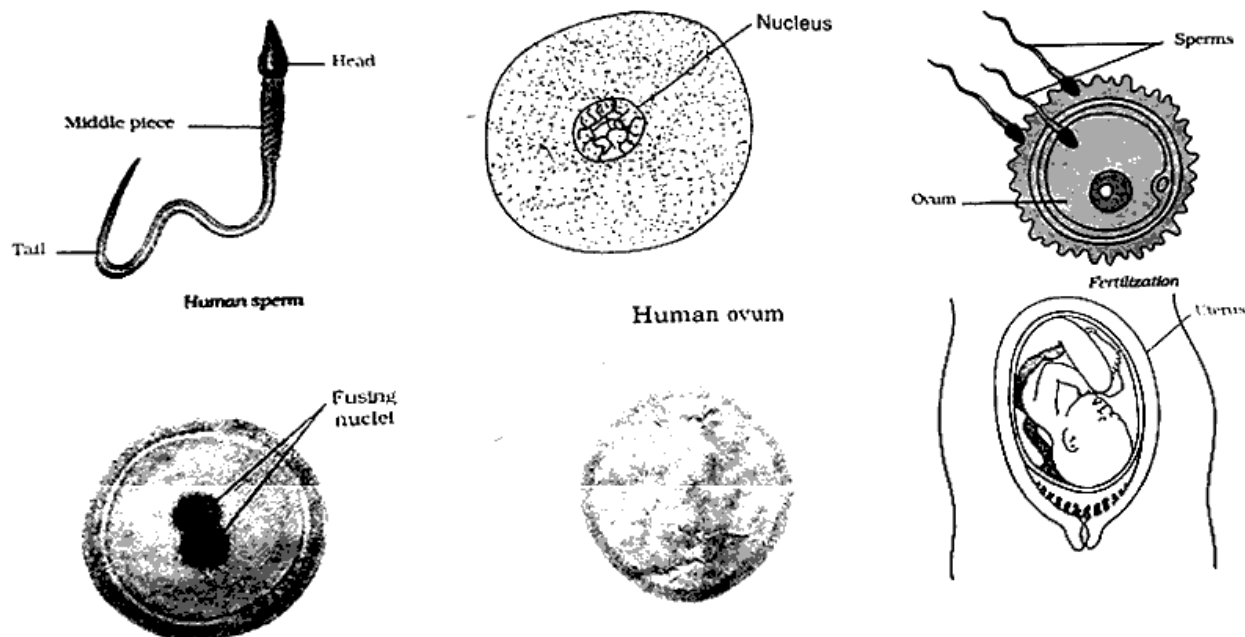
Why some liquids can be tested for conductivity by LED and not by bulb?



Complete the table based on the circuit (a) and circuit (b) for the liquids given in the table.

S. No.	Liquid	Compass in circuit (a) shows deflection or not	Bulb in circuit (b) glows or not
1	Distilled Water		
2	Tap Water		
3	Hydrochloric Acid		

Q3) Discuss sexual reproduction in human beings with the help of figures given below.



Or

What is meant by reproductive health? What are important nutritional needs of the adolescents? <https://www.jkboseonline.com> (3 x 5 = 15)

Short Answer Type Questions.

- Q4) Give a strong idea to protect, purify and beautify the Dal Lake?
 Q5) Why are the boats and aeroplane given special shape?
 Q6) Match the terms given in the column A with those given in the column B.

Column A	Column B
Sperm	Female Organ
Fertilised egg	Egg tube
Ovary	Zygote
Larva of frog	Male Organ
Oviduct	Tadpole
Testes	Male gamete

(3 x 3 = 9)

Very Short Answer Type Questions.

- Q7) What do you mean by dispersion of light?

What are the factors responsible for pollution of river?

Distinguish between the static friction and dynamic friction.

(3 x 2 = 6)

Do As Directed

Fill in the blanks with the appropriate words/terms:-

- i) ¹⁰ The amount of heat energy produced on complete combustion of 1 kg of a fuel is called its _____
- ii) 'Zaffron' or 'Kong' is cultivated in _____ in Kashmir region.
- iii) Filament of a bulb glows due to _____ effect of the electric current.

Choose the correct answer.

iv) Food obtained from animals is very rich in:-

- a) fats
- b) carbohydrates
- c) minerals
- d) proteins

v) Which of the following does not have a streamlined shape:-

- a) aeroplane
- b) boat
- c) bird
- d) bus

vi) The human eye forms the image of an object at its:-

- a) cornea
- b) iris
- c) pupil
- d) retina

vii) Which of the following is not an air pollutant:-

- a) sulphur dioxide
- b) sewage
- c) CFCs
- d) suspended particulate matter

State whether true or false.

- viii) Earthquake is caused by disturbances deep inside the earth's crust. (T/F)
- ix) Chlorination makes water dirty. (T/F)
- x) Lemon juice is a conductor of electricity. (T/F)

(10 x 1 = 10)