

3. Fill in the blanks in the following statements:

- (a) When carbon dioxide is passed through lime water, it turns milky due to the formation of _____.
- (b) The chemical name of baking soda is _____.
- (c) Two methods by which rusting of iron can be prevented are _____ and _____.
- (d) Changes in which only _____ properties of a substance change are called physical changes.
- (e) Changes in which new substances are formed are called _____ changes.

4. When baking soda is mixed with lemon juice, bubbles are formed with the evolution of a gas. What type of change is it? Explain.

5. When a candle burns, both physical and chemical changes take place. Identify these changes. Give another example of a familiar process in which both the chemical and physical changes take place.

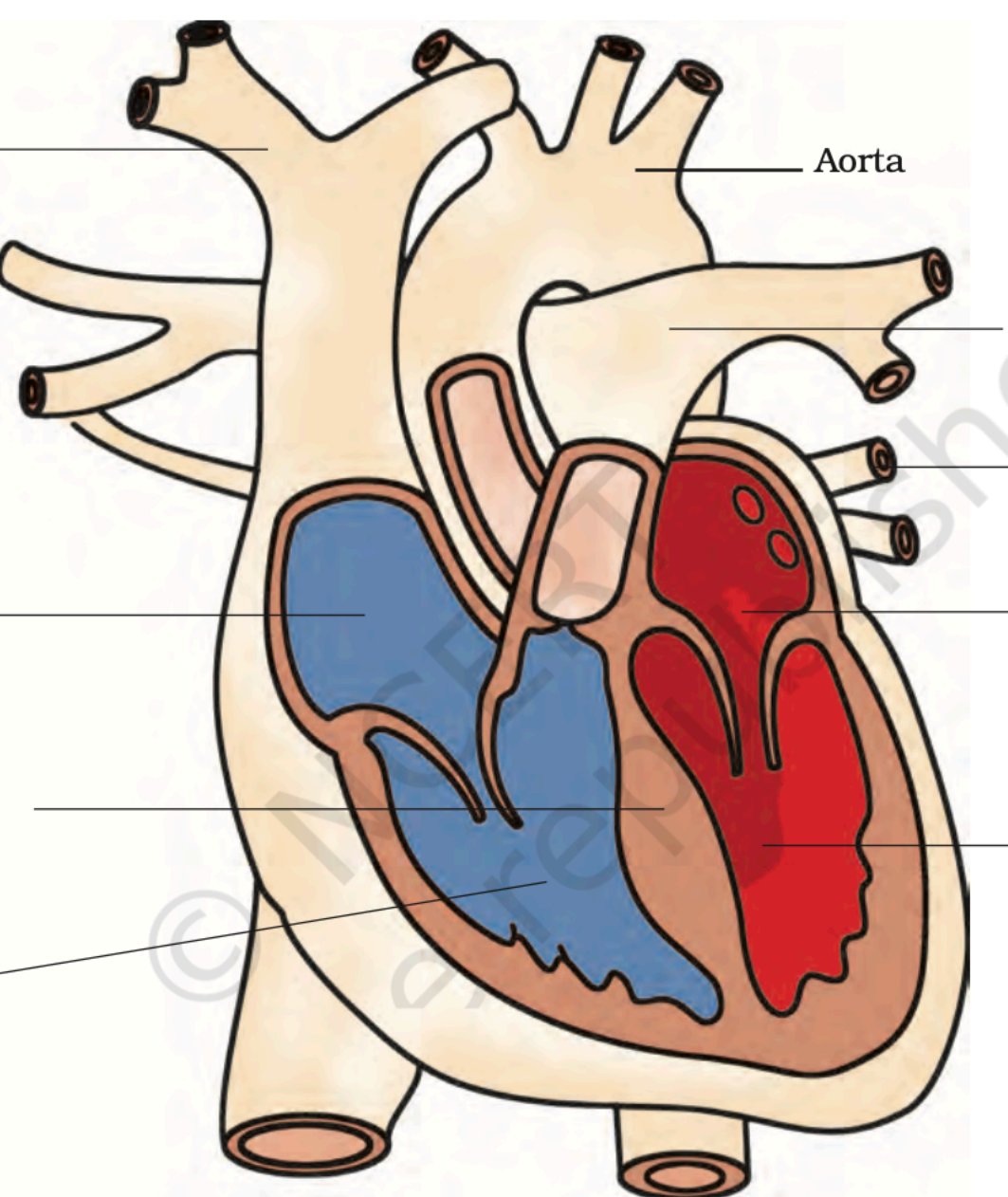


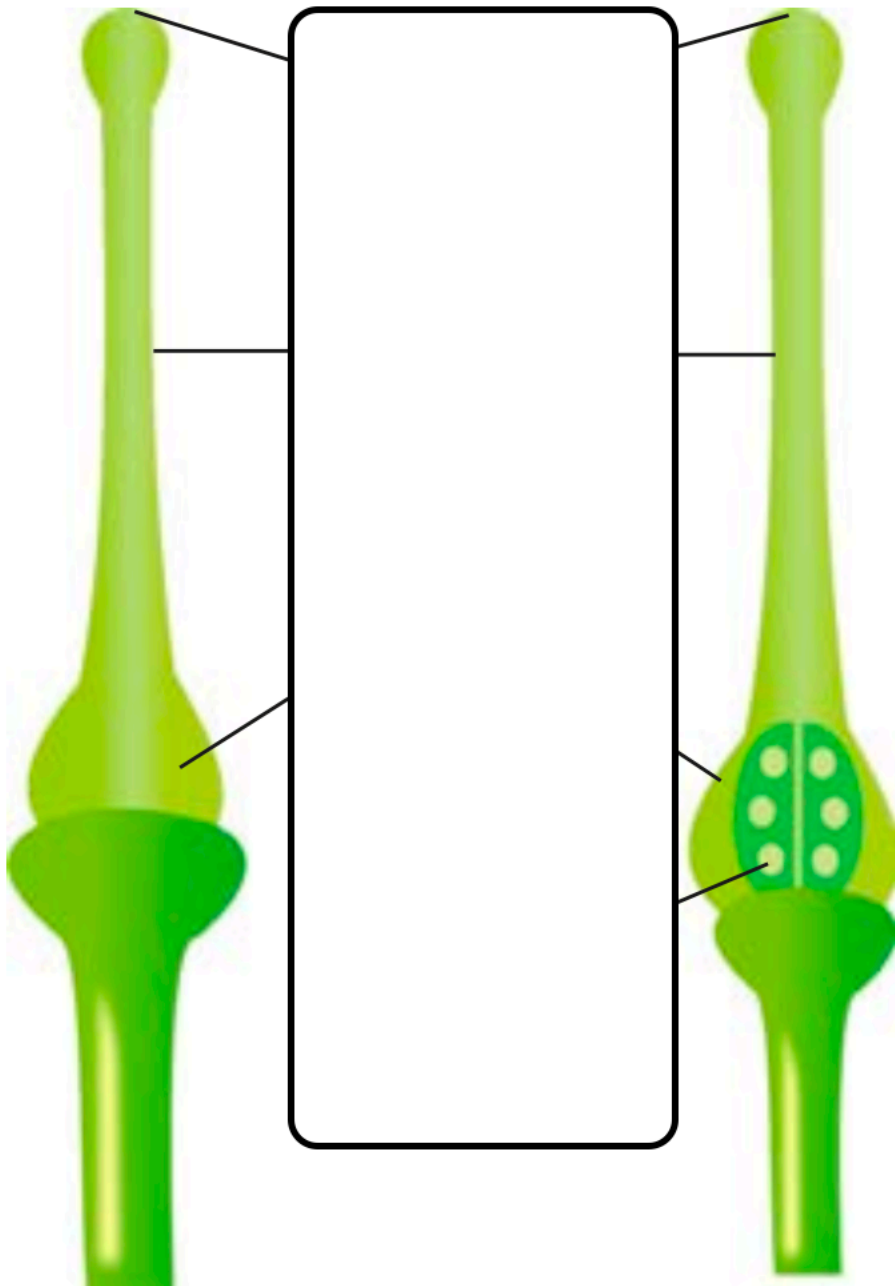
Fig. 7.4 Sections of human heart

2. Fill in the blanks.

- (i) The blood from the heart is transported to all parts of the body by the _____ .
- (ii) Haemoglobin is present in _____ cells.
- (iii) Arteries and veins are joined by a network of _____ .
- (iv) The rhythmic expansion and contraction of the heart is called _____ .
- (v) The main excretory product in human beings is _____ .
- (vi) Sweat contains water and _____ .
- (vii) Kidneys eliminate the waste materials in the liquid form called _____.
- (viii) Water reaches great heights in the trees because of suction pull caused by _____.

12. Why is it necessary to excrete waste products?

9. Why is blood needed by all the parts of a body?



(b) Pistil

Fig. 8.9 Reproductive parts

1. Fill in the blanks:

- (a) Production of new individuals from the vegetative part of parent is called_____.
- (b) A flower may have either male or female reproductive parts. Such a flower is called_____.
- (c) The transfer of pollen grains from the anther to the stigma of the same or of another flower of the same kind is known as _____.
- (d) The fusion of male and female gametes is termed as _____.
- (e) Seed dispersal takes place by means of _____, _____ and _____.

Column I

- (a) Bud
- (b) Eyes
- (c) Fragmentation
- (d) Wings
- (e) Spores

Column II

- (i) Maple
- (ii) *Spirogyra*
- (iii) Yeast
- (iv) Bread mould
- (v) Potato
- (vi) Rose

3. A simple pendulum takes 32 s to complete 20 oscillations. What is the time period of the pendulum?
4. The distance between two stations is 240 km. A train takes 4 hours to cover this distance. Calculate the speed of the train.
5. The odometer of a car reads 57321.0 km when the clock shows the time 08:30 AM. What is the distance moved by the car, if at 08:50 AM, the odometer reading has changed to 57336.0 km? Calculate the speed of the car in km/min during this time. Express the speed in km/h also.
6. Salma takes 15 minutes from her house to reach her school on a bicycle. If the bicycle has a speed of 2 m/s, calculate the distance between her house and the school.

8. Fill in the blanks:

- (a) Longer line in the symbol for a cell represents its _____ terminal.
- (b) The combination of two or more cells is called a _____.
- (c) When current is switched 'on' in a room heater, it _____.
- (d) The safety device based on the heating effect of electric current is called a _____.

1. Fill in the blanks:

- (a) An image that cannot be obtained on a screen is called _____.
- (b) Image formed by a convex _____ is always virtual and smaller in size.
- (c) An image formed by a _____ mirror is always of the same size as that of the object.
- (d) An image which can be obtained on a screen is called a _____ image.
- (e) An image formed by a concave _____ cannot be obtained on a screen.

11. A virtual image larger than the object can be produced by a

- (i) concave lens
- (ii) concave mirror
- (iii) convex mirror
- (iv) plane mirror

12. David is observing his image in a plane mirror. The distance between the mirror and his image is 4 m. If he moves 1 m towards the mirror, then the distance between David and his image will be

- (i) 3 m
- (ii) 5 m
- (iii) 6 m
- (iv) 8 m

13. The rear view mirror of a car is a plane mirror. A driver is reversing his car at a speed of 2 m/s. The driver sees in his rear view mirror the image of a truck parked behind his car. The speed at which the image of the truck appears to approach the driver will be

- (i) 1 m/s
- (ii) 2 m/s
- (iii) 4 m/s
- (iv) 8 m/s