

Board- ICSE	Std- 7 th	Topic- Excretion in Humans
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Q.1 State if the following statements are true or false. Correct the statement if it is false.

1. The organs that help our body to get rid of waste are called respiratory organs.
2. Each kidney contains millions of microscopic filtering units called ureters
3. The Bowman's capsule and glomerulus together form the Malpighian body.
4. Liver produces bile pigments from the haemoglobin of broken RBCs.

Q.2 MCQ

1. The process of removing waste from the body is called

a. respiration

b. excretion

c. inspiration

d. expiration

2. The opening of the urinary bladder is called

a. nephron

b. uriniferous tubule

c. urethra

d. nephridia

3. A network of capillaries present in the Bowman's capsule is called

a. Malpighian body

b. glomerulus

c. Uriniferous tubule

d. ureter

4. The blood vessel that supplies impure blood to a kidney is the

a. renal artery

b. renal vein

c. portal artery

d. portal vein

5. The Bowman's capsule and glomerulus together form the

a. urinary body

b. Malpighian tubule

c. Malpighian body

d. urinary tubule

6. Quinine is used in the treatment of

- a. filaria
- b. dengue
- c. malaria**
- d. paralysis

7. Plants maintain the concentration of sap inside their body with

- a. respiration
- b. transpiration**
- c. osmosis
- d. absorption

8. Transpiration is affected by

- a. light and temperature
- b. humidity and wind
- c. wind and temperature
- d. all of these .**

Q.2 Fill in the blanks.

1. **Kidneys** are a pair of reddish-brown, bean-shaped structures that lie on the either side of the backbone.
2. Urine contains **urea**, **ammonia** and **uric acid** as nitrogenous waste.
3. **Ureter** carries urine from the kidney to the urinary bladder.
4. Malpighian body consists of Bowman's capsule and **glomerulus**.
5. **Liver** produces bile pigments from the haemoglobin of broken RBCs.
6. **Resins** are present in the stem of pine tree that make the pinewood strong and durable.
7. **Morphine** is found in the seeds of poppy plants.
8. When air is humid, the rate of transpiration is **low**.

Q.3 Differentiate between

1. ureter and urethra.
2. bowman's capsule and glomerulus.
3. tannins and resins
4. excretion and transpiration

Q.4 Find the odd one out. Give reasons for your choice.

1. ureter, kidney, urinary bladder, lung, urethra
2. skin, heart, lung, liver, kidney
3. tannin, urine, latex, resin

Q.5 What is excretion ?

Q.6 What are the main organs involved in the human excretory system ?

Q.7 What is urethra ?

Q.8 List five waste products of plants.

Q.9 Define transpiration in plants.

Q.10 Describe the process of urine formation

Q.11 How do skin and lungs help in excretion ?

Q.12 Correct the sequence of the following steps to explain the process of urine formation.

1. Blood enters the glomerulus under high pressure.
2. The filtrate passes through the thin walls of the Bowman's capsule into the renal tubule
3. As the filtrate it passes through the tubule, water and many useful substances are reabsorbed by the walls of the blood capillaries.
4. Water and small solutes are filtered in the Bowman's capsule.
5. The remaining liquid, along with waste is called urine and is collected in the urinary bladder.
6. Blood containing waste material enters the kidneys through the renal artery.

Q.13 One of Harry's organs is not functioning properly. There is extra fluid build up in his body causing swelling in his ankles and feet.

What should Harry do? Tick the correct answer.

- I. Which of Harry's organs is not working properly ? (brain/heart/kidneys)
- II. He should see a (nephrologist/cardiologist/neurologist)
- III. Harry most probably needs a (pacemaker/dialysis/skin graft)