BIOLOGY

BOOKS - VGS BRILLIANT BIOLOGY (TELUGU ENGLISH)

EXCRETION- THE WASTAGE DISPOSING SYSTEM

Textual Lession Part Review Of Your Previous Knowledge

1. Where are the wastes produced?

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2. How are they produced?

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3. What are the substances present in them ?

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4. Does the composition vary in the same organism in different situations?

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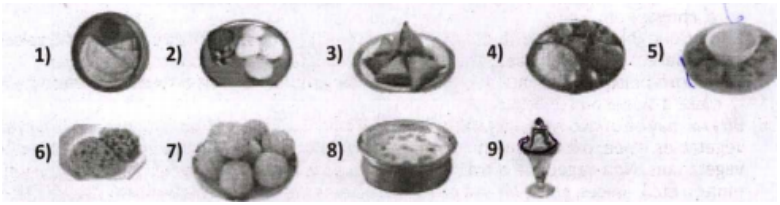
5. Name the different food items given below.



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Improve Your Learning Conceptual Understanding

1. What is meant by excretion?

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2. What are the materials present in urine?

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3. How are waste products excreted in amoeba ?

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4. Amoeba is an unicellular organism. No special- excretory organs are present in it. How does amoeba manage to send waste material from its body ?

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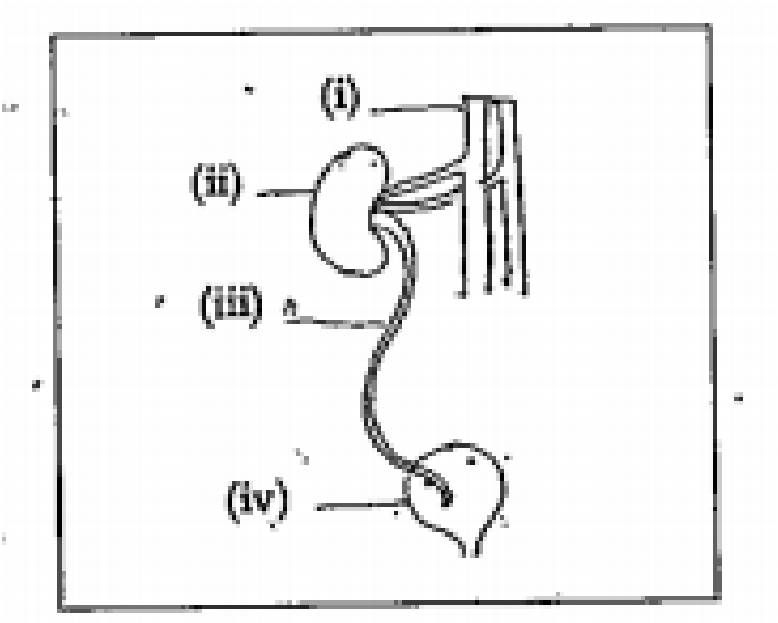
5. The order of excretory organs



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6. How are different forms of waste materials sent out by human body ? Write the names of

those organs which help in excretion in tabular form.

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7. Deepak said that 'Nephrons are functional and structural units of kidneys' . How will you support him?

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8. How can you say that kidney is suitable for filtration of biological waste from blood in man ?

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9. How do plants manage the waste materials?

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10. Plants do not contain any special excretory organs. How are waste materials sent out in the plant body ?

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11. Why do some people need to use a dialysis machine? Explain the principal involved

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12. A person's two kidneys are spoiled. There is no donor for him to transplant kidney? What method the doctors will follow to save his life ? Write detail procedure.

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13. Draw the flow chart of process of haemodialysis.

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14. What is meant by osmoregulation? How is it maintained in human body?

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15. Do you find any relationship between circulatory system and excretory system? What are they?

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16. Give reasons.

Always vasopressin is not secreted.

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17. Give reasons.

When urine is discharged, in beginning it is acidic in nature later it becomes alkaline.

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18. Give reasons.

Diameter of afferent arteriole is bigger than efferent arteriole.

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19. Give reasons.

Urine is slightly thicker in summer than in winter.

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20. Write differences between,

A. Functions of PCT and DCT

Watch Video Solution

21. Write difference

Kidney and artificial kidney

Watch Video Solution

22. Write difference

How does a normal kidney differ from man-made kidney ?

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23. Write difference

Excretion and secretion

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24. Write difference

Primary metabolites and secondary metabolites

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25. There is a pair of bean-shaped organs 'P' in the human body towards the back, just above the waist. A waste product 'Q' formed by the decomposition of unused proteins in liver is brought into organ 'P' through blood by an

artery 'R'. The numerous tiny. filters 'S' present in organ 'P' clean the dirty blood goes into circulation through a vein 'T'. The waste substance 'Q' other waste salts and excess water form a yellowish liquid 'U' which goes from organ 'P' into a bag like structure 'V' through two tubes 'W' and 'X'. This liquid is then thrown out of the body through a tube 'X'.

What is (i) organ P and (ii) waste substance Q ?

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26. There is a pair of bean-shaped organs 'P' in the human body towards the back, just above the waist. A waste product 'Q' formed by the decomposition of unused proteins in liver is brought into organ 'P' through blood by an artery 'R'. The numerous tiny. filters 'S' present in organ 'P' clean the dirty blood goes into circulation through a vein 'T'. The waste substance 'Q' other waste salts and excess water form a yellowish liquid 'U' which goes from organ 'P' into a bag like structure 'V' through two tubes 'W' and 'X'. This liquid is

then thrown out of the body through a tube 'X'.

Name (i) artery Rand (ii) vein T.

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What are tiny filters S known as ?

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then thrown out of the body through a tube 'X'.

Name (i) liquid U (ii) structure V (iii) tube W (iv) tube X.

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29. The organ 'A' of a person has been damaged completely due to a poisonous waste material 'B' has started accumulation in his blood, making it dirty. In order to save this person's life, the blood from an artery in the

person's arm is made to Dow into long tubes made of substance 'E' which are kept in coiled form in a tank containing solution 'F'. This solution contains three materials 'G', 'H' and 'I' and similar proportions to those in normal blood. As the person's blood passes through-long tubes of substance 'E', most of the wastes present in it go into solution 'F'. The clean blood is then put back into a vein in the person for circulation.

What is organ A ?

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Name the waste substance B.

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What are (i) E and (ii) F ?

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What are G, Hand I?

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What is the process described above known as ?

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Improve Your Learning Asking Questions And Making Hypothesis

1. Imagine what happens if waste materials are not sent out of the body from time to time.

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2. What happens when the waste products are not sent out from the body.

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3. To keep your kidneys healthy for long period what questions will you ask a nephrologist/urologist?

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Improve Your Learning Experimentation And Field Investigation

1. What are the gum yielding trees in your surroundings ? What procedure should you follow to collect gum from trees?

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Improve Your Learning Information Skills And Projects

1. Collect the information about uses of different kinds of alkaloids, take help of Library or internet.

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Improve Your Learning Communication Through Drawing Modal Making

1. Draw a neat labelled diagram of L.S of kindney.

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2. Draw a neat labelled diagram of internal structure of Kindey. Write the function of Renal artery and Renal vein.

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3. Describe the structure of nephron with the hepl of diagram.

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4. Draw a diagram of a Nephron, and explain its structure.

Watch Video Solution

5. Draw a block diagram showing the pathway of excretory system in human beings.

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6. How does the process filtration occur in human nephron ? Draw a block diagram / flow chart.

View Text Solution

7. If you want to explain the process of filteration I kidney what diagram you need to draw.

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Improve Your Learning Appreciation And Aesthetic Sense Values

1. List out the things that makes you amazing in excretory system of human being.

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2. How do you appreciate the functioning of excretory system of human being ?

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3. You read about 'Brain dead' in this chapter. What discussions would you like to have when you think so ?

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Improve Your Learning Application To Daily Life Concern To Biodiversity

1. We people have very less awareness about organ donation, to motivate people write slogans about donation.

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2. After learning this chapter (Excretion - The wastage disposing system) what habits would you like to change or follow for proper functioning of kidneys ?

Watch Video Solution

3. After learning this chapter (Excretion - The wastage disposing system) what habits would

you like to change or follow for proper functioning of kidneys ?

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Questions Given In The Lesson 1 Mark Questions

1. What products would cause harm to the body, if they are not removed ?

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2. What happens if harmful products are not removed from our body every day ?

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3. What are the substances present in blood ?

 Watch Video Solution

4. What are the substances present in urine ?

 Watch Video Solution

5. What are the substances present both in blood and urine ?

Watch Video Solution

6. Which substances are present above the normal limits both in the blood and urine ?

Watch Video Solution

7. What do you think a reading above normal limits indicates ?

 Watch Video Solution

8. What are the materials needed to be removed from our body ?

 Watch Video Solution

9. Think why the diameter of the efferent arteriole is less than that of afferent arteriole.

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10. Why the nephron is considered to be the structural and functional unit of the kidney ?

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11. Which arteriole has more diameter, afferent or efferent ?

Watch Video Solution

12. What are the substances that are filtered into the glomerular capsule ?

Watch Video Solution

13. If you drink more water, will you pass more urine ?

Watch Video Solution

14. What are the substances reabsorbed into the peritubular network from proximal convoluted tubule (PC1) ?

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15. What are the substances that secrete into distal convoluted tubule (DCl)?

Watch Video Solution

16. Why more urine is produced in winter ?

Watch Video Solution

17. What happens if reabsorption of water does not take place ?

Watch Video Solution

18. Is there any long term solution for kidney failure patients ?

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19. What are the other excretory organs of human body ?

Watch Video Solution

20. People in cold countries get very less/no sweat. What changes occur in their skin and in other excretory organs ?

Watch Video Solution

21. Do roots secrete ?

Watch Video Solution

22. Why do we get pecullar smell when you shift the potted plants.

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Questions Given In The Lesson 2 Mark Questions

1. What products would the orgamsm be able to take up for other activities ?

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2. From where are these materials removed ?

Watch Video Solution

3. What are the organs that separate excretory materials ?

Watch Video Solution

4. Why do you think the body must remove waste substances ?

Watch Video Solution

5. What happens if both kidneys fail completely ?

Watch Video Solution

6. Collect mformatton on sebum and prepare a news bulletin, display it on bulletin board.

Watch Video Solution

7. Why do plants shed their leaves and bark periodically ?

Watch Video Solution

8. Name the alkaloids which are harmful to us.

Watch Video Solution

9. Do you think there is any relation between reduction in yielding and root secretions ?

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Questions Given In The Lesson 4 Mark Questions

1. Where is the transplanted kidney fixed in the body of a kidney failure patient ?

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2. What about the failed kidneys ? (Or) Write about the failure of kidneys.

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3. Can donor survive her life with single kidney without any complications ?

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4. Do plants excrete like animals ?

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5. How do plants manage or send out waste products from its body ?

Watch Video Solution

6. Analyse the following information and answer the questions.

Alkaloid	Part of the plant	Uses
Quinine	Bark	Anti malarial drug.
Nicotine	Leaves	Insecticide
Morphine, Cocaine	Fruits	Pain killer
Caffeine	Seeds	Central Nervous System stimulant.
Pyrethroids	Flowers	Insecticides
Scopolamine	Fruits, flowers	Sedative

Which parts of the plants are used as alkaloids ?

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7. Analyse the following information and answer the questions.

Alkaloid	Part of the plant	Uses
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Nicotine	Leaves	Insecticide
Morphine, Cocaine	Fruits	Pain killer
Caffeine	Seeds	Central Nervous System stimulant.
Pyrethroids	Flowers	Insecticides
Scopolamine	Fruits, flowers	Sedative

What are the alkaloids which are used to control the diseases that occur in plants?

Watch Video Solution

8. Analyse the following information and answer the questions.

Alkaloid	Part of the plant	Uses
Quinine	Bark	Anti malarial drug.
Nicotine	Leaves	Insecticide
Morphine, Cocaine	Fruits	Pain killer
Caffeine	Seeds	Central Nervous System stimulant.
Pyrethroids	Flowers	Insecticides
Scopolamine	Fruits, flowers	Sedative

Name the parts of the plant from which we get alkaloids used as sedative.

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9. Analyse the following information and answer the questions.

Name the alkaloid which is used to prevent malaria.

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Think Discuss

1. Do cells need excretion ?

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2. Why are we advised to take sufficient water ?

Watch Video Solution

3. Why do some children pass urine during sleep at night until 15 or 16 years of age?

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4. Why weeds and wild plants are not affected by insects and pests ?

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5. Ravi went to his cotton field. There he observed some of the cotton leaves were affected by Insects. He also observed that weeds in between are not affected. Give reasons.

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Fill In The Blanks

1. Earthworm excretes its waste material through ..... .

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2. The dark coloured outer zone of kidney is called ..... .

Watch Video Solution

3. The process of control of water balance and ion concentration within organism is called ..... .

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4. Reabsorption of useful product takes place in ..... part of nephron.

Watch Video Solution

5. Gums and resins are the ..... products of the plants.

Watch Video Solution

6. Bowman's capsule and tubule taken together make a ..... .

Watch Video Solution

7. The alkaloid used for malaria treatment is ..... .

 Watch Video Solution

8. The principle involved in dialysis is ..... .

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9. Rubber is produced from ..... of Heavea braziliensis .

Watch Video Solution

10. ..... performed first Kidney Transplantation.

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Choose The Correct Answer

1. The structural and functional unit of human kidney is called .....

A. Neuron

B. Nephron

C. Nephridia

D. Flame cell

Answer: B

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2. The excretory organ in cockroach

A. Malphigian tubules

B. Raphids

C. Ureters

D. Nephridia

Answer: A

 Watch Video Solution

3. Which of the following is the correct path taken by urine in Q,lV body ?

A. Kidney, urethra, ureters, bladder

B. Kidney, ureters, bladder, urethra

C. Kidney, bladder, ureters, urethra

D. Kidney, urethra, bladder, ureters

Answer: C

Watch Video Solution

4. Malpighian tubules are excretory organs in

A. Earthworm

B. Housefly

C. Flatworm

D. Hen

Answer: B

 Watch Video Solution

5. Major component of urine is

A. Urea

B. Sodium

C. Water

D. Creatine

Answer: C

6. Special excretory organs are absent in

A. Birds

B. Amoeba

C. Sponges

D. A and B

Answer: B

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7. Which of the following hormones has direct impact on urination ?

A. Adrenal

B. Vasqpressin

C. Testosterone

D. Estrogen

Answer: B

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8. Amber colour to urine due to

A. Urochrome

B. Bilirubin

C. Biliverdin

D. Chlorides

Answer: A

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9. Sequence of urine formation. in nephron is

A. Glomerular filtration $\rightarrow$ Tubular reabsorption $\rightarrow$ Tubular secretion

B. Tubular reabsorption $\rightarrow$ Tubular secretion $\rightarrow$ Glomerular filtration

C. Tubular secretion $\rightarrow$ Gloinerular filtration $\rightarrow$ Tubular reabsorption

D. Tubular reabsorption $\rightarrow$ Concentration of urine $\rightarrow$ Tubular secretion

Answer: A

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10. Part of the nephron that exists in outer zone of ~dney

A. Loop of the Henle

B. PCT

C. DCT

D. Bowman's capsule

Answer: D

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11. After having lunch or dinner one can feel to pass urine, because of

A. Stomach pressures on bladder

B. Solids become liquids

C. Water content in food material

D. Sphincter relaxation

Answer: D

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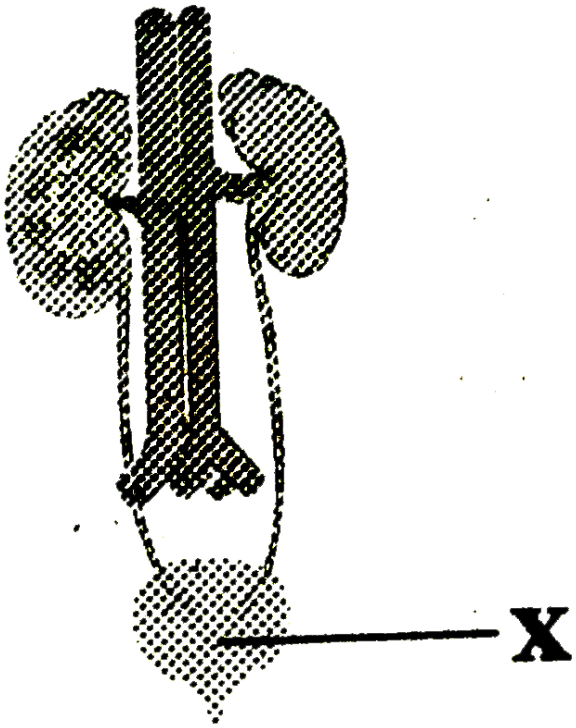
Creative Questions For New Model Paper 1 2 Maks Questions



1.

Name the labelled part 'x' in the above figure.

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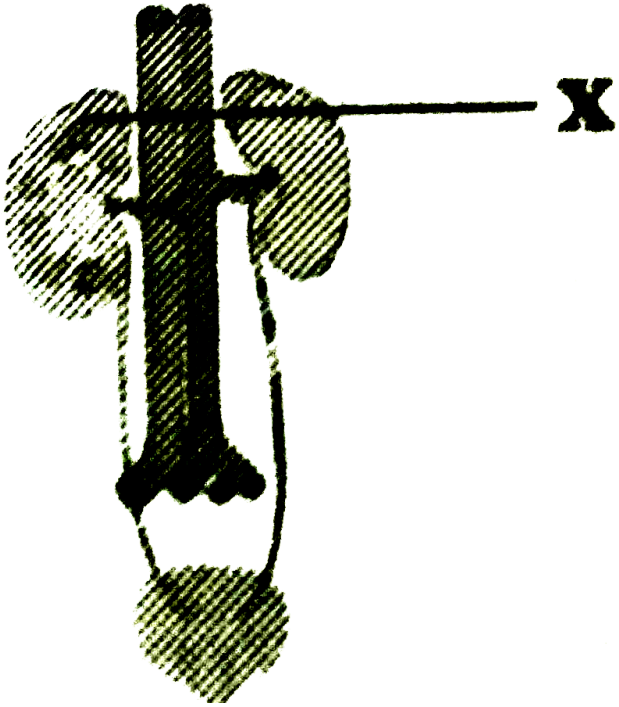
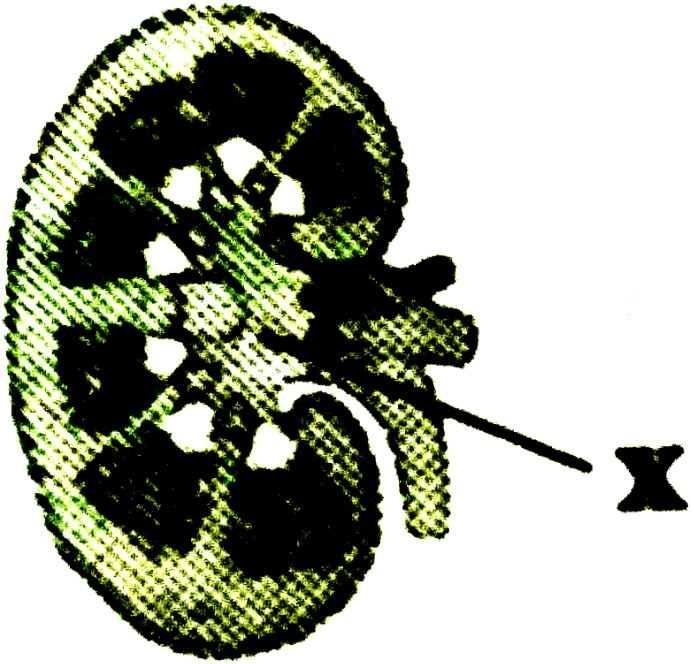
2. 

Name the labelled part 'x' in the above figure.

Watch Video Solution



3.

Name the labelled part 'x' of the above figure.

Watch Video Solution

4. 

Can you guess the labelled part 'x' in the above figure ?

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5. 

Can you name the labelled part 'x' in the above figure ?

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6. 

The above shown structure is belongs to which human system ?

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7. 

Name the labelled part 'x' in the above figure.

Watch Video Solution

8. Expand E.S.R.D.

Watch Video Solution

9. Expand P.C.T.

Watch Video Solution

10. Expand D.C.T.

Watch Video Solution

11. I am a secondary metabolite. I am obtained from bark of the plant. I can cure malaria. Who am I ?

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12. I am an alkaloid. I am present in root. I am used in the treatment of snake bite. Who am I ?

Watch Video Solution

13. I am an alkaloid. I work as an antiptic. Who am I ?

Watch Video Solution

14. I am a secondary metabolite. I am white in colour. I am commercially very valuable. Who am I ?

Watch Video Solution

15. Identify the scientist with the help of the paragraph.

In 1954, he was a famous surgeon in Washington D.C in U.S.A, performed thefirst kidney transplantation surgery between two identical twins.

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16. Identify the mismatched pair.

1) Nematoda - Flame cells

2) Mollusca - Meta nephridia

3) Echinodermata - Canal system

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17. Identify the mis matched pair.

1) Liver - Urine

2) Lungs - CO_2 and water vapour

3) Skin -Salts and water

Watch Video Solution

18. Identify the mismatched pair.

1) Latex - Rubber

2) Resins - Varnishes

3) Tannins - Bio - fuels

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19. Identify the mis - matched pair.

1) Neem - gum

2) Jatropa - biofuel

3) Pious - latex

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20. Complete the blanks.

..... (1) is extracted from cinchona officinalis and is used as ..... (2).

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21. Complete the blanks.

In Datura plant, from it's ..... (1) we get an alkaloid named ..... (2), used as sedative.

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22. Complete the blanks.

..... (1) are the first excretory organelles in the evolution..... (2) are the excretory organs in Nematoda.

Watch Video Solution

23. Complete the blanks.

..... (I) acts as detoxification centre of our

body. It also produces a pigment called ..... (2), which gives amber colour to the urine.

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24. Read the sentence, find the error and rewrite it.

After a life span of 140 days, RBC destroyed iri liver.

Watch Video Solution

25. Read the sentence, find the error and rewrite it.

Haemodialysis works on the principle of diffusion.

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26. Read the sentence, find the error and rewrite it.

The permanent solution for kidney failure is dialysis.

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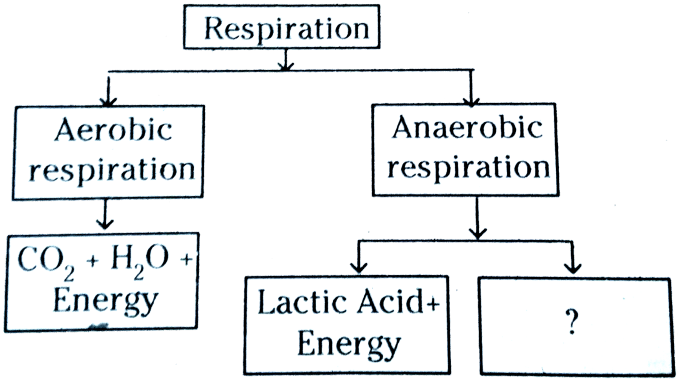
27. Observe the flow chart and complete the blanks .



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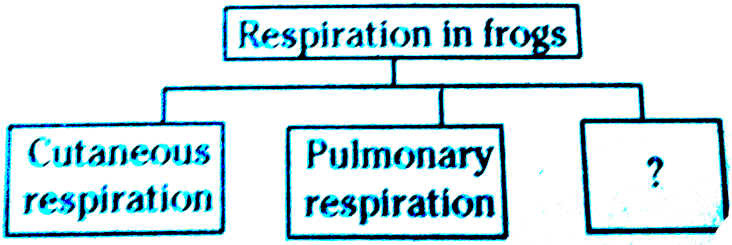
28. Observe the flow chart and complete the blanks .



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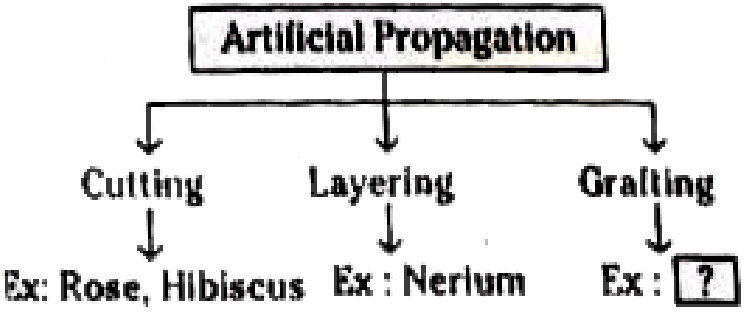
29. write the missing option



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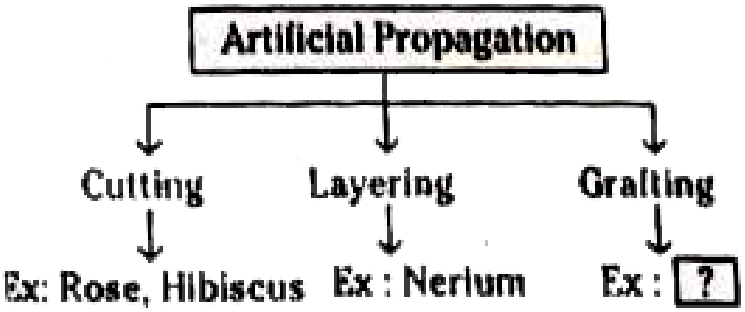
30. Fill the missing options



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31. Which of the following group does not represent secondary metabolites ?

A. Carbohydrates , Proteins , Fats

B. Alkaloids , Resins , Tannins, Latex, Gums

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32. Which of the following group, represent hazardous alkaloids ?

A. Quinine, Reserpine, Caffeine, Nim bin

B. Nicotine , Morphine, Cocaine

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33. Which of the following group, represent excretory organs of different groups ?

A.Skin , Liver , Kidney, Nephridia, Metanephredia

B. Pulsative vesicle, 13 chambered heart,Canal system

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34. Which of the following group, constitute alkaloids ?

A. Riboflavin, Calciferol, Tocoferol, Ascorbic Acid

B. Morphine, Cocaine, Nicotin, Nimbin

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35. I am an alkaloid. I am used in soap to cure skin diseases and allergies. Who am I?

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36. I am a hormone. I help in th e formation of concentrated urine. Who am I?

Watch Video Solution

37. I am a plant. Latex from my seeds is seful as bio-fuel who am I ?

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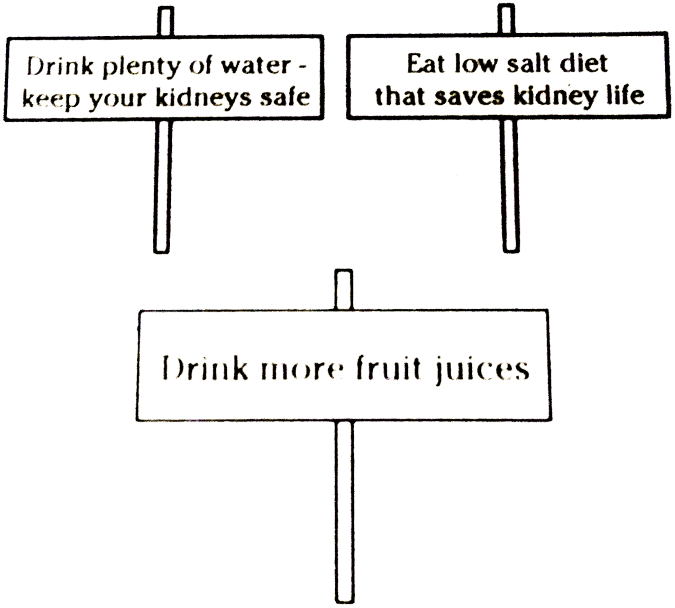
38. Observe the placards. Suggest one occasion can you use them in your school.



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39. I am the structural and functional unit of kidneys. Who am I ?

Watch Video Solution

40. I am the excretory organ, present in flatworms. Who am I ?

Watch Video Solution

41. We are the excretory organs in Earthworm. Who are we ?

Watch Video Solution

42. lam the excretory system present in star fish. Who am I ?

Watch Video Solution

43. We are the excretory organs, present in snails. Who are we ?

Watch Video Solution

44. I am an alkaloid. I extracted from flower of the plant. I am used as , insecticide. Who am I?

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45. I am a medicinal plant. From my bark a antimalarial drug is extracted. Can you name me?

Watch Video Solution

46. I am a medicinal plant. From my root anti snake bite medicine is prepared. Who am I ?

Watch Video Solution

47. Complete the blanks.

..... (1) alkaloid is extracted from Neem tree from its seeds , barks and leaves. It is used as .....(2).

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48. Complete the blanks.

..... (1) alkaloid is extracted from coffee plant . It acts as ..... (2).

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49. Scopolamine : Sedative , Morphine : ☐ ?

Watch Video Solution

50. Nim bin : antiseptic , Nicotin : ☐ ?

Watch Video Solution

51. Quinine : bark , Reserpine : ☐ ?

Watch Video Solution

52. Caffeine : Seeds , Nicotin : ☐ ?

Watch Video Solution

53. Resins : Varnish , Tannins : ☐ ?

Watch Video Solution

54. Gums : Adhesive agents , Latex of Jatropa: ☐ ?

Watch Video Solution

55. Liver : Urochrome , Skin : □ ?

Watch Video Solution

56. Name the de-amination centre of our body.

Watch Video Solution

57. We are present in glomeruhis. We are lined by a single layer of squamous epithelial cells. We have minute pores. We filter the blood. Who are we ?

Watch Video Solution

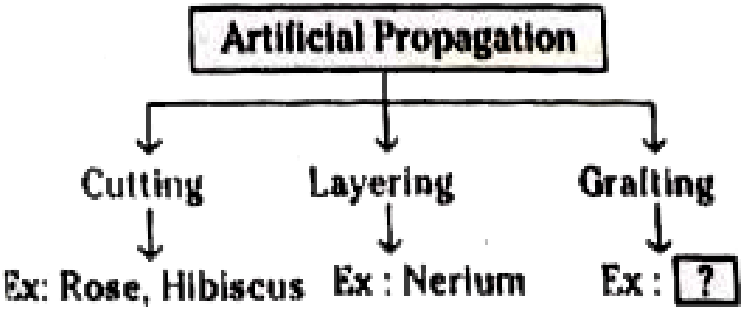
58. Heart : Cardiologist, Kidneys : □ ?

Watch Video Solution

59. Write the path-way of urine.

Watch Video Solution

60. Fill the missing options



Watch Video Solution

61. Which of the following is correct

Watch Video Solution

62. Skin : Sweat : : Lungs : ..... ? .....

Watch Video Solution

63. Which of the following is correct ?

A. Quinine - Pain killer

B. Scopolamine - Medicine for snake bite

C. Nicotine - Antiseptic

D. Morphine - Pain killer

Answer:

64. Arrange the following parts in sequential order.

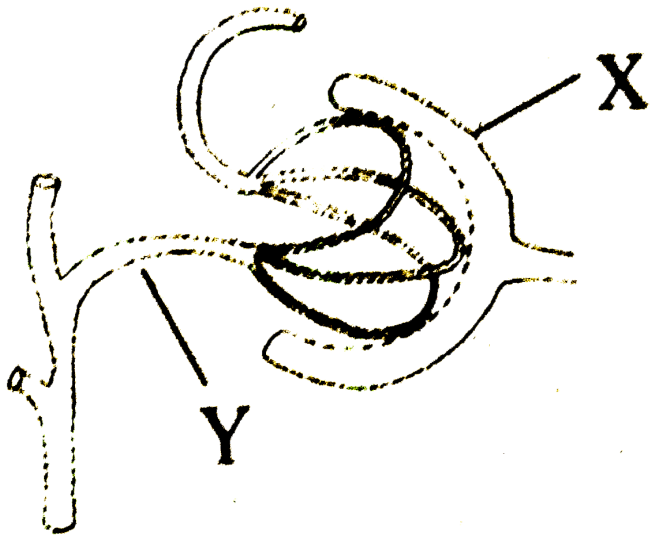
i) Collecting tube ii) Pyramids

iii) DCT iv) Ureters

v) Pelvis vi) Calyces

Watch Video Solution

65. Identify the X' and · 'Y' in the given diagram.



Watch Video Solution

66. Write the correct sentence given below.

Right kidney - slightly lower than left kidney

Right kidney - slightly higher than left kidney

Right kidney - left kidney are same height.

Right kidney - is nearer to vertebral column than left kidney

Watch Video Solution

67. Complete this table.

Type of food	End products
1) Carbohydrates	Glucose
2) Proteins	?

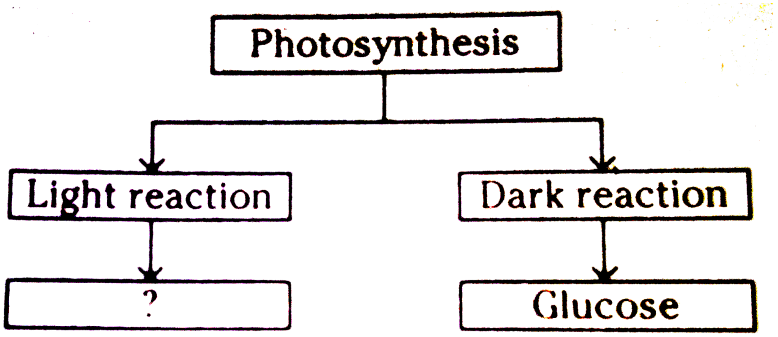
Watch Video Solution

68. Complete this table.

Enzyme	Organ of release
1) Ptyalin	Salivary glands
2) Amylase	?

Watch Video Solution

69. Complete this flow chart.



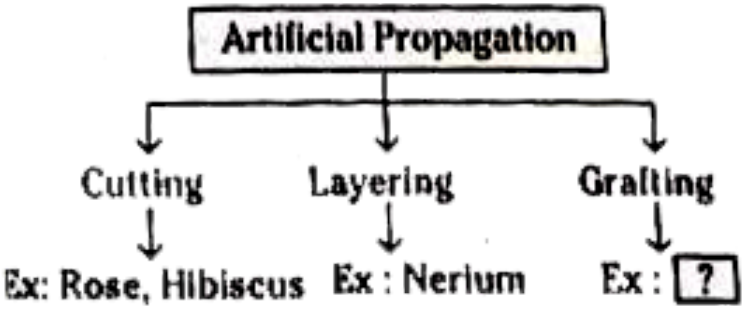
ATP, NADPH

Watch Video Solution

70. Scopa/amine, Datura, Pyreth . roids: .....

Watch Video Solution

71. Fill the missing options



Watch Video Solution

72. Identify the mis-matched pair.

1) Human beings - Urea

2) Fish - Uric acid

3) Birds - Ammonia

Watch Video Solution

73. Identify the mis-matched pair.

I) Datura - Antiseptic

2) Tobacco - Carcinogenic agent

3) Coffee - CNS Stimulant

Watch Video Solution

74. Reserpine : Root, Quinine : .....

Watch Video Solution

75. Caffeine : Seed, Scoplamine : ..... ?

Watch Video Solution

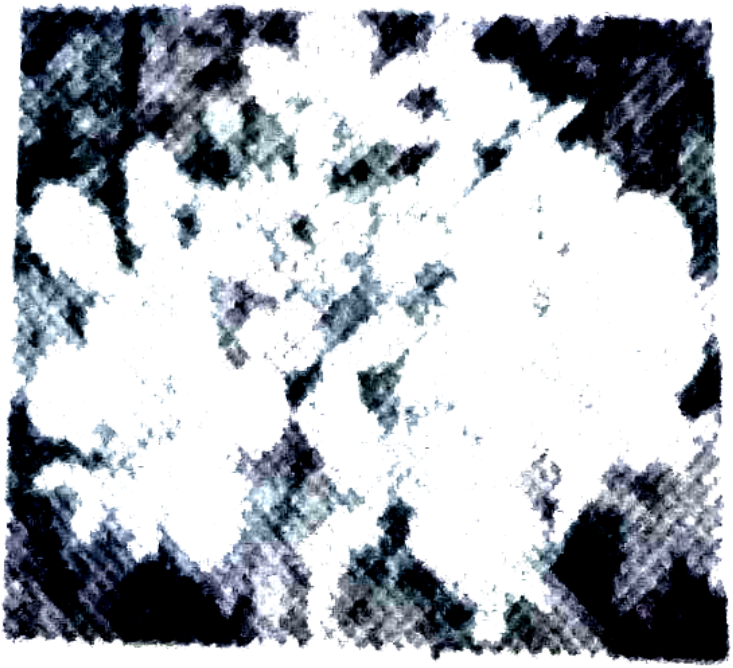
76. Can you identify this alkaloid plant ?

Watch Video Solution

77.  Can-you identify this resin yielding plant

?

Watch Video Solution



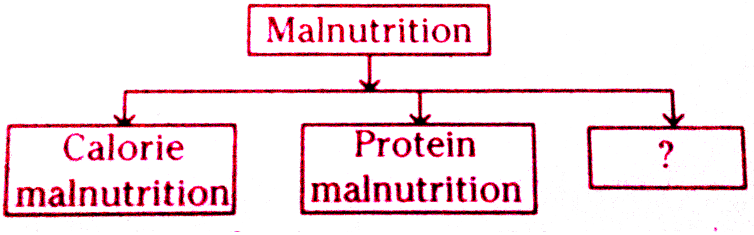
78. Can you identify this tannin giving plant ?

Watch Video Solution

79. This plant has high commercial value. Can you identify this plant?

Watch Video Solution

80.

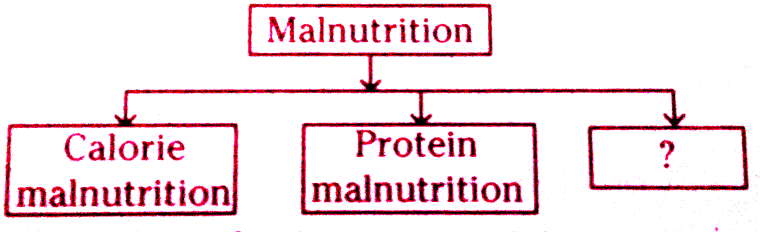


Watch Video Solution

81. Resins : ..... , Gums : Adhesives

Watch Video Solution

82.



Watch Video Solution

83. Match the following columns

List-I	List-II
A. Freon's	1. Rise in temperature of earth's surface
B. Ozone	2. Forms holes in ozone layer
C. Carbon dioxide	3. Protects life from UV radiation
D. Sulphur dioxide	4. Increase in fluoride ion concentration
	5. Acid rain

The correct match is

Watch Video Solution

84. Annelida : Nephredia, Mollusca: .....

Watch Video Solution

85. Sponges: Canal system, Starfish: ..... ?

Watch Video Solution

86. Cockroach : Malpighian tubules, Snail: ..... ?

Watch Video Solution

87. Earthworm : Nephredia, Planaria: ..... ?

Watch Video Solution

Creative Questions For New Model Paper Preparation Questions For The Examination Purpose

1. What are the accessary excretory organs of man ?

Watch Video Solution

2. What are pigments secreted by liver?

Watch Video Solution

3. What is the place where the dead RBC are destroyed ?

Watch Video Solution

4. What is the drug detoxification centre of our body?

Watch Video Solution

5. What is the pigment responsible for the colour of the Urine ?

Watch Video Solution

6. Which organ secretes urochrome '?

Watch Video Solution

7. What is the life span of RBC ?

Watch Video Solution

8. What is called "the graveyard of RBC" in our body ?

Watch Video Solution

9. In which part of our body, Urea is produced ?

Watch Video Solution

10. What is ESRD ?

Watch Video Solution

11. If the two kidneys are failed in our body, what will happen ?

Watch Video Solution

12. What is the temporary solution for the kidney failure ?

Watch Video Solution

13. What is the permanent solution for the kidney failure ?

Watch Video Solution

14. The branch of science that deals with the study of kidneys ?

Watch Video Solution

15. What is the principle involved in dialysis?

Watch Video Solution

16. Who performed the first kidney transplantation?

Watch Video Solution

17. Where did the first kidney trans-plantation is done in India ?

Watch Video Solution

18. Where do you observe sebaceous glands?

Watch Video Solution

19. What is excreted by sebaceous glands ?

Watch Video Solution

20. What are the excretory wastes present insebum?

Watch Video Solution

21. Through which process excretion takes place in protozoans ?

Watch Video Solution

22. What are the excretory organs of porifers and coelenterates ?

Watch Video Solution

23. Where do you observe flame cells as excretory organs ?

Watch Video Solution

24. What are the excretory organs of Nematodes?

Watch Video Solution

25. What are the excretory organs of earthworm?

Watch Video Solution

26. Where can you observe Green glands and Malpighian tubule · ?

Watch Video Solution

27. What are the excretory organs of cockroach?

Watch Video Solution

28. What are the excretory organs of phylum mollu$Ca ?

Watch Video Solution

29. Where can you observe "water vascular system" for excretion?

Watch Video Solution

30. What is the excretory organs of starfish?

Watch Video Solution

31. What are the excretory organs present in reptiles, aves and mammals?

Watch Video Solution

32. What are the examples for primary metabolites ?

Watch Video Solution

33. The materials which do not require for normal growth and development of plants are called as ?

Watch Video Solution

34. Give two examples for secondary metabolites.

Watch Video Solution

35. Name the secondary metabobte which are nitrogenous by - products and poisonous.

Watch Video Solution

36. Name the alkaloid which is used as medicine to cure malaria.

Watch Video Solution

37. Where do you extract qumme from ?

 Watch Video Solution

38. What is the alkaloid present in Tobacco?

 Watch Video Solution

39. What is the use of nicotin ?

 Watch Video Solution

40. Where do you extract nicotin from ?

Watch Video Solution

41. Name the alkaloid that is used as medicine for snake bite.

Watch Video Solution

42. Give examples for the organisms which do not have special excretory organs.

Watch Video Solution

43. A person's. limbs are swollen and he is suffering from weakness and fatigue Guess, which organs might bedamaged in him.

Watch Video Solution

44. How can you identify the waste materials in blood ?

Watch Video Solution

45. Name the process that occur at PCT region of nephron.

Watch Video Solution

46. Which is the most poisonous excretory material produced in metabolism of living organisms ?

Watch Video Solution

47. Suggest a practice to keep your kidneys healthy.

Watch Video Solution

48. Name the dark coloured outer zone of the kidney.

Watch Video Solution

49. Which substances are eliminated from blood by tubular secretions ?

Watch Video Solution

50. Name the hormone that increase the reabsorption in collecting tubules.

Watch Video Solution

51. What is the primary function of the ascending loop of Henle in the kidney?

Watch Video Solution

52. Bowman's capsule is lined by a single layer of squamous epithelial cells. Name these cells.

Watch Video Solution

53. Name the process responsible for urine production that takes place in the nephrons.

Watch Video Solution

54. Name the part of the renal tubule that maintains a proper concentration and pH of the urine.

Watch Video Solution

55. Where does ultrafiltration of blood take place in ?

Watch Video Solution

56. Name the hormone that helps in the formation of concentrated urine.

Watch Video Solution

57. What is the storage capacity of urinary bladder in man ?

Watch Video Solution

58. Where do plants store their waste materials?

Watch Video Solution

59. Name the alkaloid that acts as stimulant of central nervous system.

Watch Video Solution

60. From which part of the neem tree antiseptic nimbin is obtained?

Watch Video Solution

61. What are the uses of gums ?

Watch Video Solution

62. From which plant do we get rubber?

Watch Video Solution

63. Pollen grains cause all ergy. What might be the reason for th. ?

Watch Video Solution

64. Name the endocrine gland which is present on the kidneys.

 Watch Video Solution

65. Name the hormone that is responsible for diabetes mellitus.

 Watch Video Solution

66. What will happen if one kidney of a person is removed ?

Watch Video Solution

67. What do you call the cluster of capillaries present in kidney ?

Watch Video Solution

68. From which part of papaver somniferum do we get morphine and cocaine?

Watch Video Solution

69. From which part of chrysanthemum do we get insecticide pyrethroids are extracted?

Watch Video Solution

70. Name the sedative extracted from the flower and fruit of Datura stromanium?

Watch Video Solution

71. A person is suffering from excessive repeated dilute urination. Name the disease with which he is suffering from ?

Watch Video Solution

72. Name the plant that cause skin allergy and asthma.

Watch Video Solution

73. In which part of kidney, reabsorption of useful product takes place?

Watch Video Solution

74. Who invented dialysis machine ?

Watch Video Solution

75. Name the blood vessel that brings oxygenated blood loaded with waste products to kidney.

Watch Video Solution

76. In which part of the nephron, primary urine is produced ?

Watch Video Solution

77. In which part of the nephron, useful substances from primary urine are absorbed into peritubular network ?

Watch Video Solution

78. In which region is 75% of water content of the nephric filtrate reabsorbed ?

Watch Video Solution

79. Name the tube that carries urine from the kidney to the urinary bladder.

Watch Video Solution

80. Name the tube that sends urine to the outside of our body.

Watch Video Solution

81. What is the reason for the amber colour of the urine ?

Watch Video Solution

82. If a person's body is completely filled with extra water and waste products. What do you name this condition ?

Watch Video Solution

83. Name the anticoagulant of blood given during dialysis.

Watch Video Solution

84. What is the lime required to complete one haemodialysis session ?

Watch Video Solution

85. Name the process through which plants get rid of excess water.

Watch Video Solution

86. In which plant group we can observe the resin passages?

Watch Video Solution

87. Name the secondary metabolite that helps in the healing of damaged parts of a plant.

Watch Video Solution

88. from which plant do we get biodiesel?

Watch Video Solution

89. What are the uses of tannins ?

Watch Video Solution

90. From which plant, chewing gum is prepared?

Watch Video Solution

91. Vicky's brother is a regular bed wetter? What might be the reason for that?

Watch Video Solution

92. What are the materials required for the normal growth and development of plants?

Watch Video Solution

93. What is the structural and functional unit of a kidney ?

Watch Video Solution

94. What is the osmoregulatory organelle in amoeba and paramoecium ?

Watch Video Solution

95. Water bathes almost all their cells in body of organisms belonging to these animal phyla?

Watch Video Solution

96. What are the processes used by plants to get rid of excess water.

Watch Video Solution

97. In which group of plants does resin occur?

Watch Video Solution

98. Give two examples for gum yielding plants.

Watch Video Solution

99. Which organ of the plant body helps in osmoregulation ?

Watch Video Solution

100. Which organ of the cell in animals helps in osmoregulation ?

 Watch Video Solution

Creative Questions For New Model Paper 1 Maks Questions

1. What is meant by excretion?

 Watch Video Solution

2. What are primary metabolites?

Watch Video Solution

3. What are secondary metabolites ?

Watch Video Solution

4. When you are on a field trip, your friend collected a sticky substance oozed out by a

plant called gum. What are the plants you observe which give gum ?

Watch Video Solution

5. Why is urine yellow in color ?

Watch Video Solution

6. Write two slogans to popularize the awareness on "Organ Donation".

Watch Video Solution

7. Write any two substances present both in blood and urine.

Watch Video Solution

8. When you are on a field trip, you might have collected some plants which contain alkaloids. Name the alkaloids which are harmful to us.

Watch Video Solution

9. Write the names of any two excretory organs in human beings.

Watch Video Solution

10. Which plants in your surroundings are useful for the production of medicines ?

Watch Video Solution

11. Write two healthy habits which you practice to protect your kidneys from diseases.

Watch Video Solution

12. What precautions you have to take in the observation of internal structure of mammalian kidney?

Watch Video Solution

13. The body of a person is filled with extra water and waste products. His hands and feet were swollen. What do we call this condition ? Failure of which system causes this condition ?

Watch Video Solution

14. In urine excretory system much water is reabsorbed. What happens if it doesn't occur?

Watch Video Solution

15. A substance given below consists of other three substances. What is that su~stance ? Where is it produced? Uric Acid, Sodium, Oxalate, Urine.

Watch Video Solution

16. Why do we feel sticky of stem and leaves of a plant effected with aphids?

Watch Video Solution

17. What is Anabolism ?

Watch Video Solution

18. What is Catabolism ?

Watch Video Solution

19. What are the wastes produced during metabolic activities ?

Watch Video Solution

20. What are the substances present in blood ?

Watch Video Solution

21. What are the substances present in urine ?

Watch Video Solution

22. What are the substances that need to be removed from body ?

Watch Video Solution

23. What are the major parts in human excretory system ?

Watch Video Solution

24. Where are the kidneys present in human body ?

Watch Video Solution

25. What is the size of the kidney ?

Watch Video Solution

26. Which artery brings oxygenated blood to kidney ?

Watch Video Solution

27. What are the two distinct regions present inside the kidney?

Watch Video Solution

28. Each kidney is made up of how many nephrons ?

Watch Video Solution

29. What is the other mime of Nephron ?

Watch Video Solution

30. What are the two basic parts of nephron ?

Watch Video Solution

31. Which blood vessel forms glomerulus in Bowman's capsule?

Watch Video Solution

32. What does renal tubule consist of ?

Watch Video Solution

33. What is the major function of proximal convoluted tubule ?

Watch Video Solution

34. What is the function of loop of Henle ?

Watch Video Solution

35. What is the function of Distal convoluted tubule ?

Watch Video Solution

36. How many stages are involved in the formation of urine ?

Watch Video Solution

37. The amount of water absorption in the tubule depends on ?

Watch Video Solution

38. In which region is 75% of water content of the nephric filtrate reabsorbed ?

Watch Video Solution

39. What is micturation ?

Watch Video Solution

40. What is the composition of various substances in urine ?

Watch Video Solution

41. What is uremia ?

Watch Video Solution

42. What are the symptoms of uremia ?

Watch Video Solution

43. What is haemodialysis ?

Watch Video Solution

44. What are the organs that can be transplanted from brain dead patients ?

Watch Video Solution

45. Where is the transplanted kidney fixed in the body of kidney failed patient ?

Watch Video Solution

46. What is cadaver transplantation ?

Watch Video Solution

47. What are the waste products removed by lungs ?

Watch Video Solution

48. What are the wastes sebum of sebaceomtglandsin skin contains?

Watch Video Solution

49. What are the metabolic wastes of haemoglobin of red blood cells in liver?

Watch Video Solution

50. How is urea produced in liver ?

Watch Video Solution

51. What are the wastes excreted by intestine ?

Watch Video Solution

52. How do unicellular organisms remove waste products ?

Watch Video Solution

53. What are Raphides ?

Watch Video Solution

54. What are tannins ?

Watch Video Solution

55. What is latex ?

Watch Video Solution

56. What happens if some materials are above normal limits in the blood and urine?

Watch Video Solution

57. Why the nephron is considered to be the structural and functional unit of the kidney ?

Watch Video Solution

58. Why more urine is excreted ?

Watch Video Solution

59. Which substances are present above the normal limits both in the blood and urine ?

Watch Video Solution

60. What are the uses of tannins ?

Watch Video Solution

61. What is the economic importance of gums ?

Watch Video Solution

62. What is osmoregulation ?

Watch Video Solution

63. What is the basic reason of urine production ?

Watch Video Solution

64. Due to availability of less water, how do the plants cope up with Jack, of water in desert

conditions ?

Watch Video Solution

65. What are nitrogenous wastes ?

Watch Video Solution

66. What are the three main types of nitrogenous wastes excreted by living beings ?

Watch Video Solution

67. Why does the ingestion of alcohol increase urination?

Watch Video Solution

68. What would happen to amoeba if osmoregulation did not take place ?

Watch Video Solution

69. What might be reason for getting odour when potted plant shift from its place?

Watch Video Solution

70. What are the defensive mechanism developed by plants of your village to protect themselves from the herbivores ? Give two examples.

Watch Video Solution

Creative Questions For New Model Paper 2 Maks Questions

1. Prepare four questions to find the reasons for obstructions in excretory system.

Watch Video Solution

2. కింది నిలువు వరుసలను సరిపోల్చండి

1) ఆర్కియోప్టరిక్స్	(c)	a) జీవులు, నిర్జీవులు
2) పెరిపేటస్	(a)	b) అనిలెడా, ఆర్థ్రోపోడ
3) యూగ్లీనా	(d)	c) పక్షులు, సరీసృపాలు
4) వైరస్	(b)	d) వృక్షాలు, జంతువులు

పై వానిలో సరిగా జతపర్చబడినవి. ( )

Watch Video Solution

3. Two kidneys are present in human beings as excretory organs. Haritha, whose age is 23 years, donated one kidney to her father. Now she has one kidney only. She gave birth to a female child.

How many kidneys are there in Haritha's daughter ?

Watch Video Solution

4. Two kidneys are present in human beings as excretory organs. Haritha, whose age is 23 years, donated one kidney to her father. Now she has one kidney only. She gave birth to a female child.

Support your answer.

Watch Video Solution

5. Name the secondary metabolites which are useful in leather and rubber industry. From which plants we obtain them?

Watch Video Solution

6. What questions do you ask a nephrologist to know more about kidney related diseases?

Watch Video Solution

7. Prepare four questions you will ask a nephrologist about Kidney failure.

Watch Video Solution

8. Nephron is called structural and functional unit of kidney. Why?

Watch Video Solution

9. Blood is filtered in Bowman's capsule of nephron. For the filtration of blood some pressure is needed. How does this pressure happen to blood ?

Watch Video Solution

10. Classify the substances given below.

Ptyaline, Leptin, Morphine, Riboflavin, Testosterone, Thyamin, Niacine, Sucrase, Nicotine, Amylase, Retinol, Quinine, Calciferol, Adrenaline, Tripsin.

Watch Video Solution

11. State the role of kidneys in human transport system.

Watch Video Solution

12. Why the glomeruli are considered as dialysis bags ?

Watch Video Solution

13. What might be reason for getting odour when potted plant shift from its place?

Watch Video Solution

14. What are the materials present in urine?

Watch Video Solution

15. How does excretion take place in phylum protozoa ?

Watch Video Solution

Creative Questions For New Model Paper 4 Maks Questions

1.

S.No.	Test	Present level	Normal range
	A. Blood Test		
1.	Blood Pressure (BP)	160/90 mm/Hg	120/80 mm/Hg
2.	Glucose (Before food)	120- mg/dl	60-100 mg/dl
3.	Glucose (After food)	220 mg/dl	160-180 mg/dl
4.	Bilirubin	1.0 mg/dl	0.1-0.8 mg/dl
	B. Urine Test		
1.	24 hrs protein	150 mg/day	100 mg/day
2.	Sodium	140 mmol/L	125-250 mmol/L

Which test is required to know bilirubin?

Watch Video Solution

2.

How the sugar disease is confirmed?

Watch Video Solution

3.

By observing the above report, what would be the other problems faced by that patient?

Watch Video Solution

4.

Sl. No.	Test	Present level	Normal range
		A. Blood Test	
1.	Blood Pressure (BP)	160 / 90 mm/Hg	120 / 80 mm/Hg
2.	Glucose (Before food)	120 mg/dl	60 - 100 mg/dl
3.	Glucose (After food)	220 mg/dl	160 - 180 mg/dl
4.	Bilirubin	1.0 mg/dl	0.1 - 0.8 mg/dl
		B. Urine Test	
1.	24 hrs protein	150 mg/day	100 mg/day
2.	Sodium	140 m mol/l	125-250 m mol/l

(D) What are the organs affected by these problems?

Watch Video Solution

5. Name the alkaloid which is used as medicine to cure malaria.

Watch Video Solution

6.

Alkaloid	Part of the plant	Uses
Quinine	Bark	Anti-malarial drug
Pyrethroids	Leaves	Insecticide
Reserpine	Roots	Medicine for snake bite
Caffeine	Seeds	Central nervous system stimulant
Nimbin	Seeds, Barks, Leaves	Antiseptic

Name the alkaloids used as insecticides.

Watch Video Solution

7.

Which system is stimulated by the alkaloid caffeine ?

Watch Video Solution

8.

Alkaloid	Part of the plant	Uses
Quinine	Bark	Anti-malarial drug
Pyrethroids	Leaves	Insecticide
Reserpine	Roots	Medicine for snake bite
Caffeine	Seeds	Central nervous system stimulant
Nimbin	Seeds, Barks, Leaves	Antiseptic

Which parts of which plant is used as medicine for snake bite ?

Watch Video Solution

9. What are the accessary excretory organs of man ?

 Watch Video Solution

10. Which diagram do you draw to label these parts?

1) Bowman s capsule 2) Uriniferous tubule 3) Collecting tubul

Draw the diagram and label the parts .

 Watch Video Solution

11. What is the permanent solution for the kidney failure ?

Watch Video Solution

12. The given parts belong to which system ? Draw a neat labelled diagram of the system.

a) Kidneys b) Ureters c) Urinary bladder

Watch Video Solution

13. Explain the formation of urine in a flow chart

Watch Video Solution

14. Excreting wastes from the human body not only by kidneys but also by other organs help. How do you support it.

Watch Video Solution

15. not Only the food of plants but also their wastes are useful to us. What evidences do you give for it?

Watch Video Solution

16. Write an eassy stating the advantages of by - products of plants In our real life.

Watch Video Solution

17. An excretory system is absent in

Watch Video Solution

18. Write information in tabular form of different phyla and excretory system in animal kingdom.

Watch Video Solution

19. What are secondary metabolites ?

Watch Video Solution

20. List out the things that makes you amazing in excretory system of human being.

Watch Video Solution

21. Describe the internal structure of kidney with the help of diagrams.

Watch Video Solution

22. Give reasons.

Diameter of afferent arteriole is bigger than efferent arteriole.

Watch Video Solution

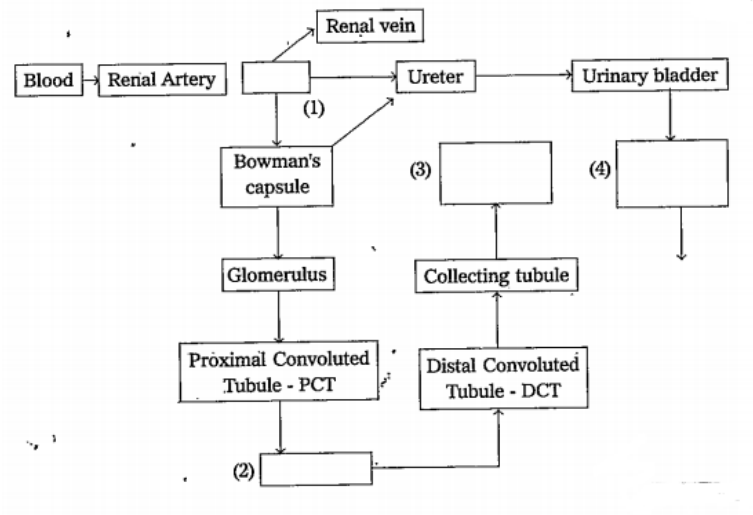
23. A student observed a patient undergoing haemodialysis. He has many doubts about haemodialysis. What might be his doubts ?

Watch Video Solution

24. Explain the external features of kidney in human beings.

Watch Video Solution

25. Observe the below flow chart. Fill the boxes. Explain to which system this belongs to.



Watch Video Solution

26. Observe the following table and answer the following questions.

Name the alkaloid which is used as medicine for snake bite.

Watch Video Solution

27. Observe the following table and answer the following questions.

Why do we feel much relief when we drink coffee ?

Watch Video Solution

28. Observe the following table and answer the following questions.

What are different kinds of alkaloids which cause harm to us ?

Watch Video Solution

29. Observe the following table and answer the following questions.

Name the alkaloid which acts as cancer causing agent (Carsinogenic agent).

Watch Video Solution

30. Observe the following table and answer the following questions.

Name the plant which gives antimalarial drug.

Watch Video Solution

31. Observe the following table and answer the following questions.

Alkaloid	Plant	Part	Uses
Quinine	Cinchona officinalis (Cinchona)	Bark	Antimalarial drug
Nicotine	Nicotiana tobacum (Tobacco)	Leaves	Insecticide
Morphine, Cocaine	Papaver somniferum (Opium)	Fruit	Pain killer
Reserpine	Rauwolfia serpentina (Snake bite)	Root	Medicine for snake bite
Caffeine	Coffea Arabica (Coffee plant)	Seed	Central nervous system stimulant
Nimbin	Azadirachta indica (neem)	Seeds, Barks, Leaves	Antiseptic
Scopolamine	Datura stramonium	Fruit, Flower	Sedative
Cocaine	Erythroxylon coca	Leaves	Anesthetic

Why do we add neem leaves to bathing water when a person suffering from skin disease?

Watch Video Solution

32. Observe the following table and answer the following questions.

What is the use of turmeric ?

Watch Video Solution

33. Draw neat labelled diagram of the functional unit of kidney. Write main function of Glomerulus.

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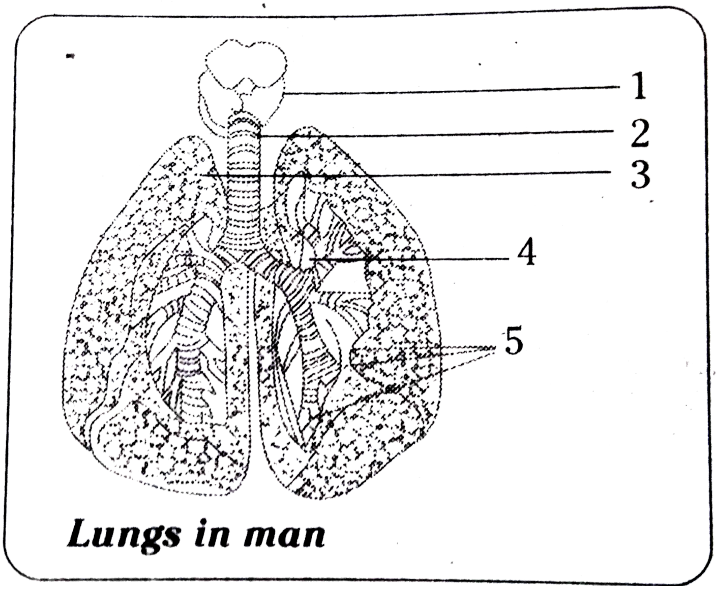
34. Label the parts for given diagram .



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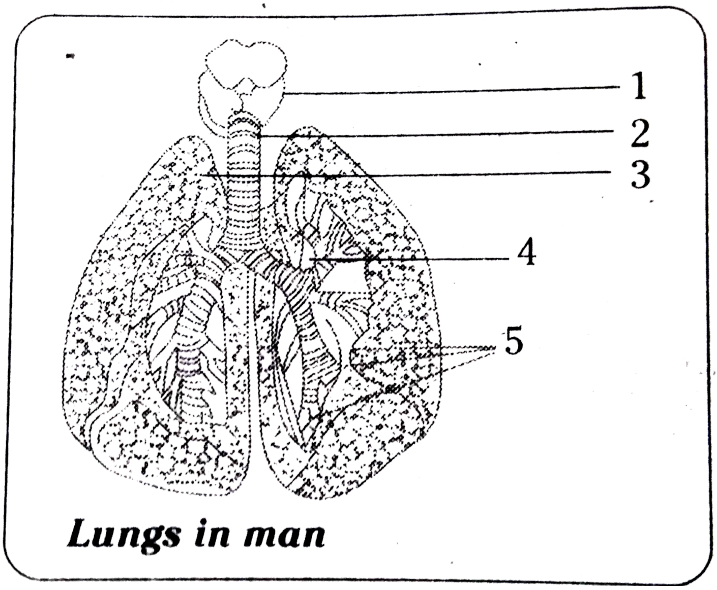
35. Label the parts for given diagram .



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36. Draw the flow chart of process of haemodialysis.

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37. Draw the diagram of nephron. Recognize the parts of glomerulus and tubular reabsorption. Write how those actions take place.

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38. Draw the structure of an excretory organ, Which contains Bowman's capsule and lood of

Henle and label it.

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39. What are the major parts in human excretory system ?

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40. In recent days many people are coming forward ·to donate organs of brain dead people, who met with accidents. How will you

appreciate the family members of organ donor?

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41. Which plants can you get in your village ? Among these by products of which plants do you use in your real life?

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42. Explain the external features of kidney in human beings.

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43. Why are weeds and wild plants not affected by insects and pests?

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44. People in cold countries get very less / no sweat. What changes occur in their skin and in other excretory organs ?

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