



BIOLOGY

BOOKS - VGS BRILLIANT BIOLOGY (TELUGU ENGLISH)

EXCRETION

Textual Lesson 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 ?



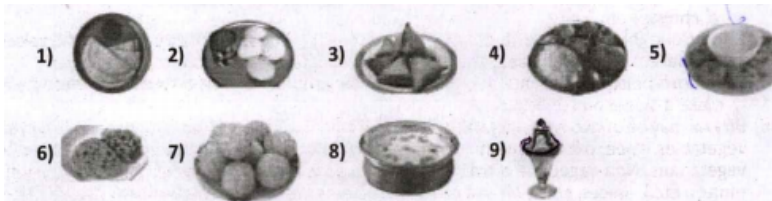
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4. Does the composition vary in the same organism in different situations?



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5. Name the different food items given below.



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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 ?



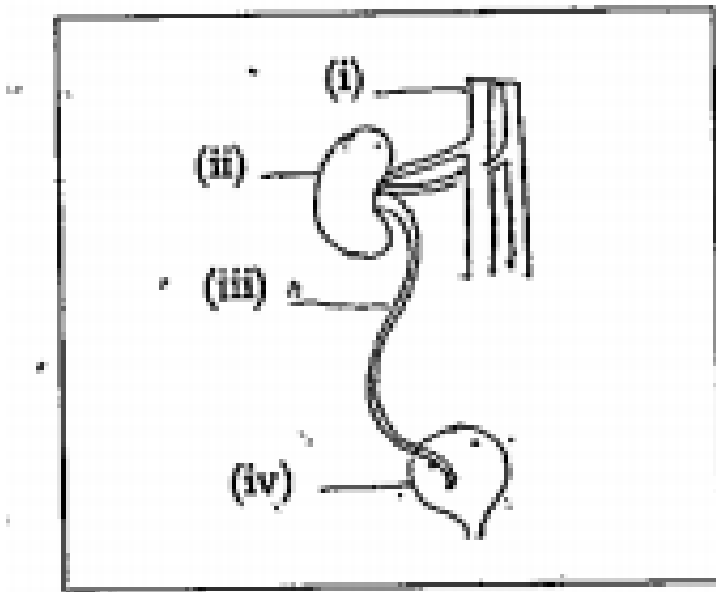
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4. Amoeba is an unicellular organism. No special- excretory organs are present in it. How does amoeba manage to send waste material from its body ?



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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



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21. Write difference

Kidney and artificial kidney



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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 and (ii) vein T.



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What are tiny filters S known as ?



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28. 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) 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 flow 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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present in it go into solution 'F'. The clean blood is then put back into a vein in the person for circulation.

Name the waste substance B.



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31. 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

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



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What are G, H and 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 kidney.



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



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



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



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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.



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7. If you want to explain the process of filtration 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 ?



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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 ?



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4. What are the substances present in urine ?



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



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



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



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



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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 ?



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



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



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



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



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16. Why more urine is produced in winter ?



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



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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 ?



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



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21. Do roots secrete ?



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



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Questions Given In The Lesson 2 Mark Questions

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



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2. From where are these materials removed ?



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3. What are the organs that separate excretory materials ?



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



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5. What happens if both kidneys fail completely ?



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



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



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8. Name the alkaloids which are harmful to us.



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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 ?



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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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| 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 |

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



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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 ?



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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



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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.



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



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



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7. The alkaloid used for malaria treatment is

..... .



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8. The principle involved in dialysis is

.



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9. Rubber is produced from of *Hevea brasiliensis*.



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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



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

- A. Kidney, urethra, ureters, bladder
- B. Kidney, ureters, bladder, urethra
- C. Kidney, bladder, ureters, urethra
- D. Kidney, urethra, bladder, ureters

Answer: C



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4. Malpighian tubules are excretory organs in

A. Earthworm

B. Housefly

C. Flatworm

D. Hen

Answer: B



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5. Major component of urine is

A. Urea

B. Sodium

C. Water

D. Creatine

Answer: C



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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. Vasopressin

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 → Tubular
reabsorption → Tubular secretion

B. Tubular reabsorption → Tubular

secretion → Glomerular filtration

C. Tubular secretion → Glomerular

filtration → Tubular reabsorption

D. Tubular reabsorption → Concentration

of urine → 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

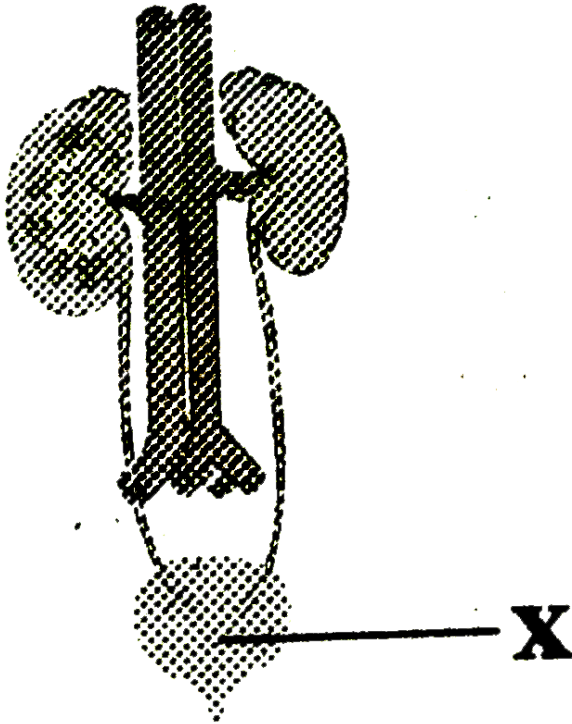
Answer: D



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Creative Questions For New Model Paper 1 2

Maks Questions

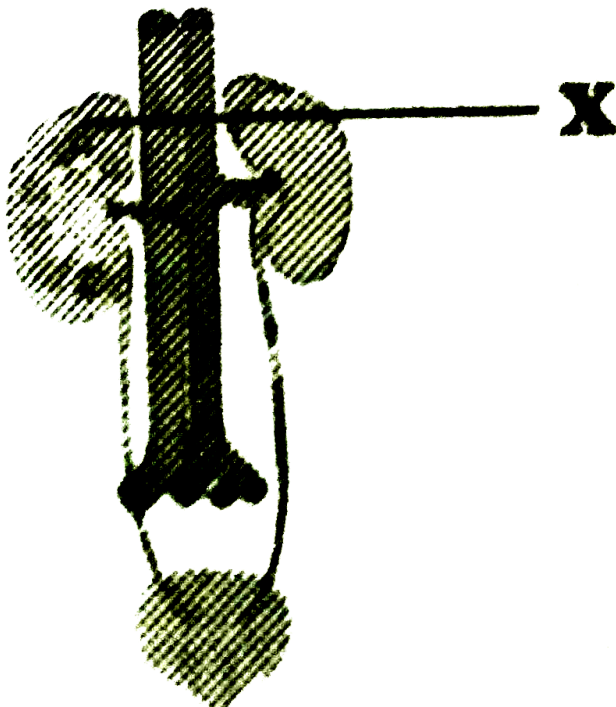


1.

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



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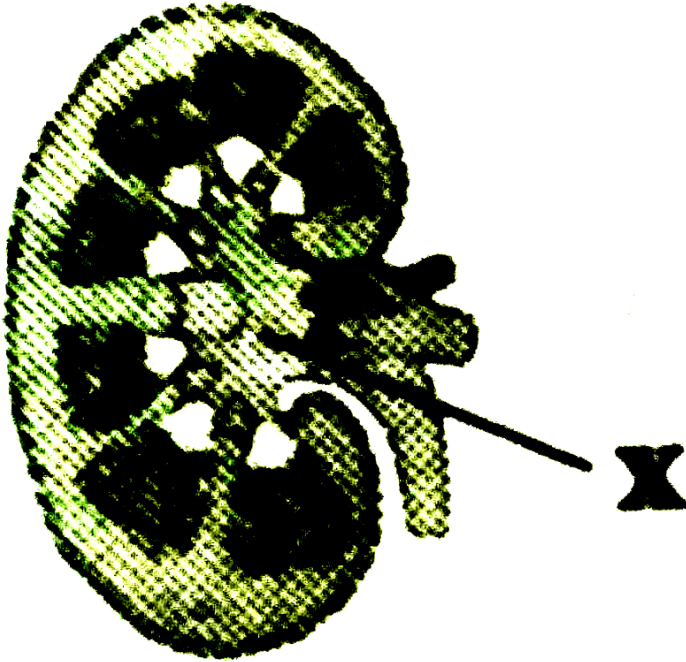


2.

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



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3.

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



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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.



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8. Expand E.S.R.D.



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9. Expand P.C.T.



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10. Expand D.C.T.



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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 ?



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



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



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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 the first 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



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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.



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23. Complete the blanks.

..... (1) 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 in liver.



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

Haemodialysis works on the principle of diffusion.



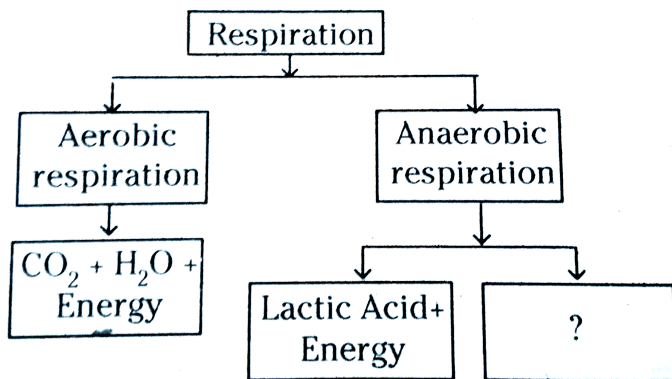
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26. Read the sentence, find the error and rewrite it.

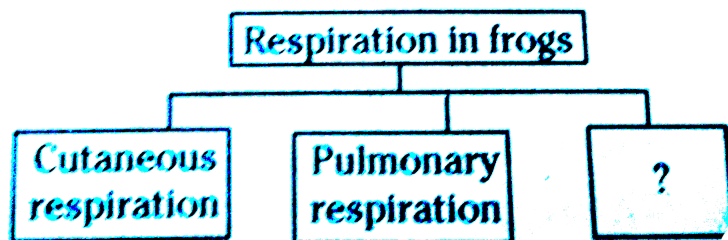
The permanent solution for kidney failure is dialysis.



27. Observe the flow chart and complete the blanks .

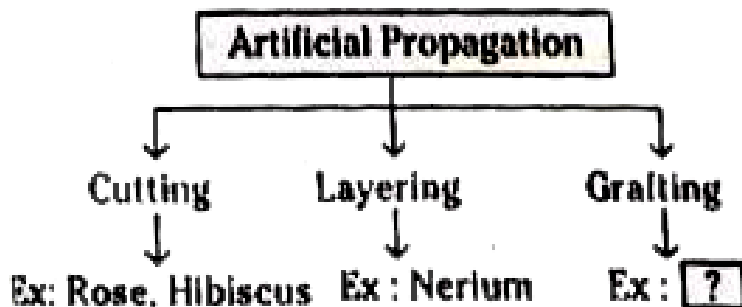


28. Observe the flow chart and complete the blanks .



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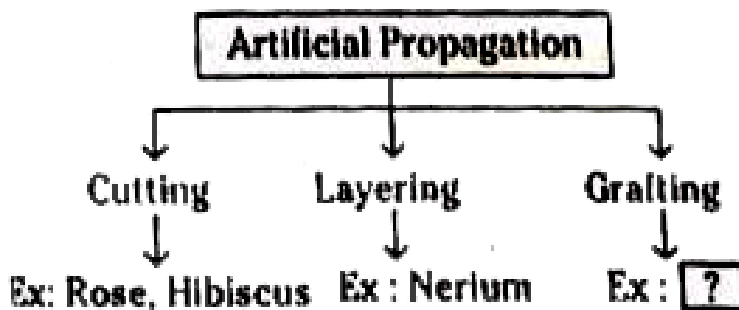
29. write the missing option





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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 the formation of concentrated urine. Who am I?



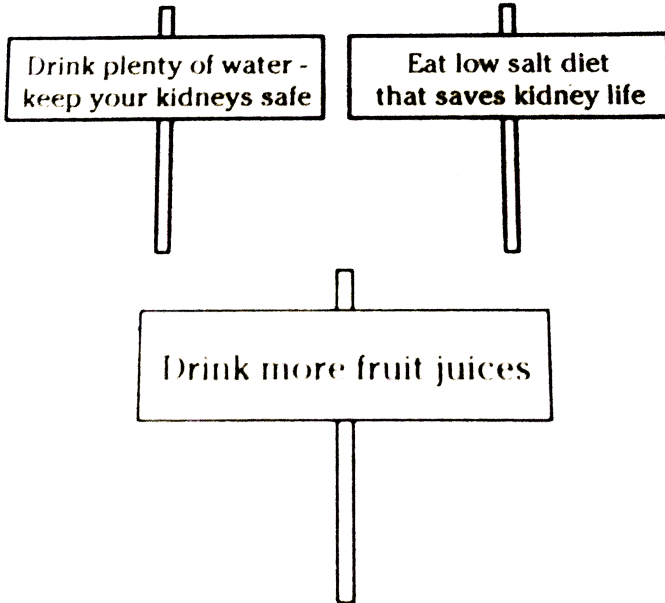
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37. I am a plant. Latex from my seeds is useful as bio-fuel who am I?



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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 ?



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



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41. We are the excretory organs in Earthworm.

Who are we ?



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



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



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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?



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



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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 : ☐ ?



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50. Nim bin : antiseptic , Nicotin : ☐ ?



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51. Quinine : bark , Reserpine : ☐ ?



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52. Caffeine : Seeds , Nicotin : ☐ ?



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53. Resins : Varnish , Tannins : ☐ ?



Watch Video Solution

54. Gums : Adhesive agents , Latex of Jatropa:

☐ ?





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55. Liver : Urochrome , Skin : ☐ ?



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



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



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58. Heart : Cardiologist, Kidneys : ☐ ?



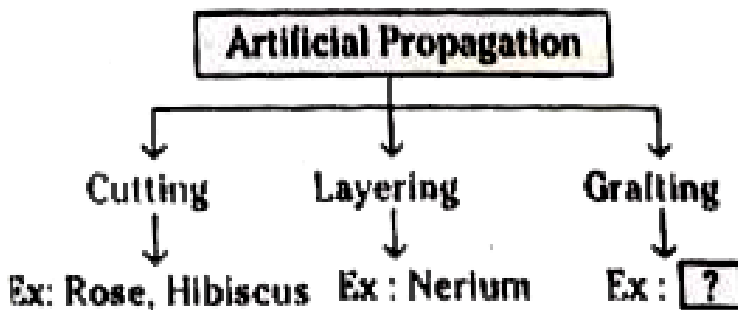
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59. Write the path-way of urine.



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60. Fill the missing options



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61. Which of the following is correct



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62. Skin : Sweat :: Lungs : ?



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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:



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64. Arrange the following parts in sequential order.

i) Collecting tube ii) Pyramids

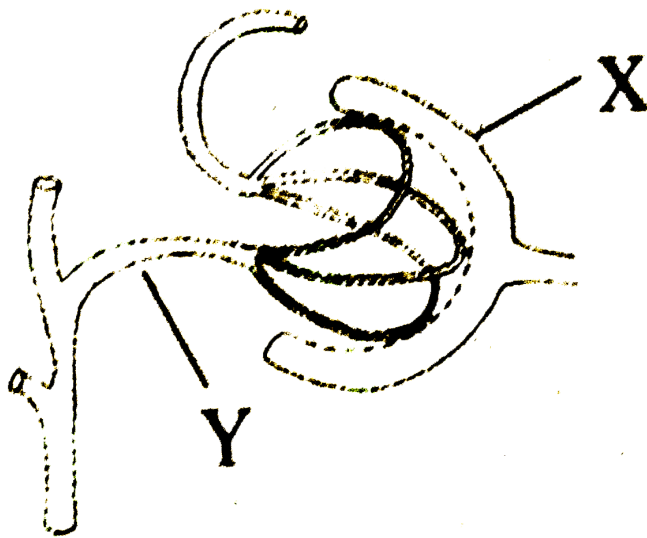
iii) DCT iv) Ureters

v) Pelvis vi) Calyces



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



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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

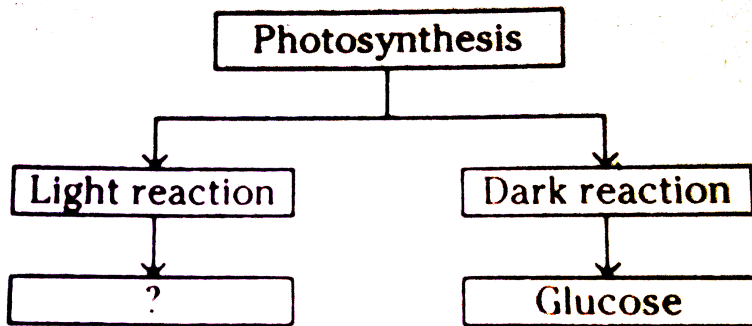
68. Complete this table.

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



Watch Video Solution

69. Complete this flow chart.



ATP, NADPH



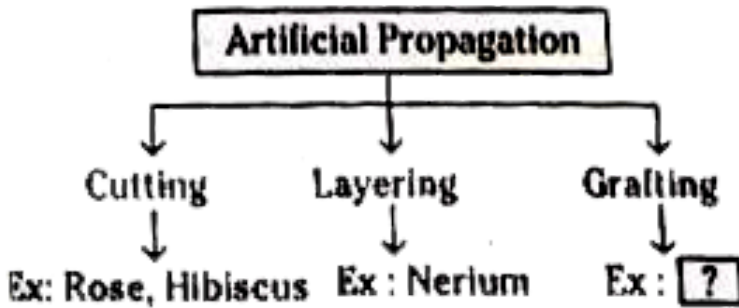
Watch Video Solution

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.

- 1) Datura - Antiseptic
- 2) Tobacco - Carcinogenic agent
- 3) Coffee - CNS Stimulant



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74. Reserpine : Root, Quinine :



[Watch Video Solution](#)

75. Caffeine : Seed, Scopolamine : ?



Watch Video Solution




76.

Can

you identify this alkaloid plant ?

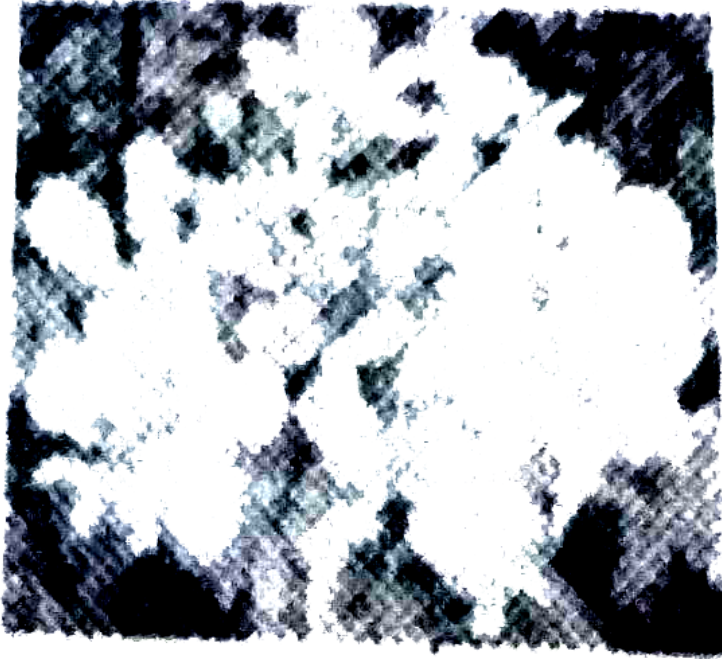


Watch Video Solution

77.  Can-you identify this resin yielding plant ?



Watch Video Solution



78.

Can

you identify this tannin giving plant ?



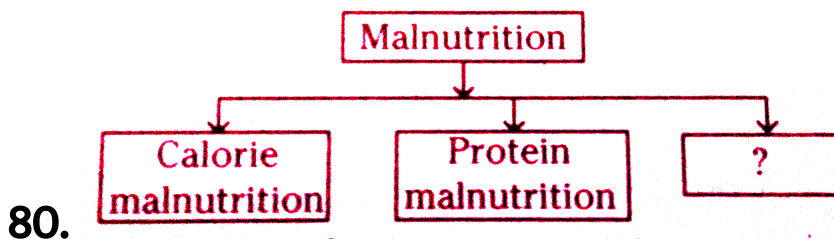
Watch Video Solution

79.  This plant has high commercial value.

Can you identify this plant?



Watch Video Solution



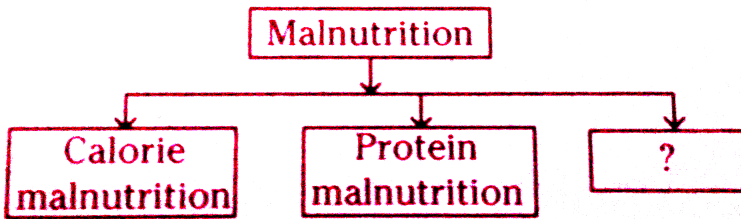
Watch Video Solution

81. Resins : , Gums : Adhesives



Watch Video Solution

82.



Watch Video Solution

83. Match the following columns

List-I

- A. Freon's
- B. Ozone
- C. Carbon dioxide
- D. Sulphur dioxide

List-II

- 1. Rise in temperature of earth's surface
- 2. Forms holes in ozone layer
- 3. Protects life from UV radiation
- 4. Increase in fluoride ion concentration
- 5. Acid rain

The correct match is



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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 accessory 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 in *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 mollusca ?



Watch Video Solution

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



Watch Video Solution

30. What are 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 metabolites 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 quinine 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 be damaged 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 allergy. What might be the reason for this?



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 stramonium*?



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 time 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 paramecium ?



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 Mks 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 substance ?
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 name 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 sebaceous glands in 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 lack, 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 Marks Questions

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



Watch Video Solution

2. కింది నిలువు వరుసలను సరిపోల్చండి

- | | |
|----------------------------|-----------------------|
| 1) ఆర్మియోస్టెరిక్స్ (c) | a) జీవులు, నిర్జీవులు |
| 2) పెరిపేటన్ (a) | b) అనిలెడా, ఆర్థోపోడ |
| 3) యూగ్లినా (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 Marks 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

| 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 |

4.

(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

| 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 |

6.

Name the alkaloids used as insecticides.



Watch Video Solution

7. 

Which system is stimulated by the alkaloid caffeine ?



Watch Video Solution

| 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 |

8.

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



Watch Video Solution

9. What are the accessory 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 essay 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 ?



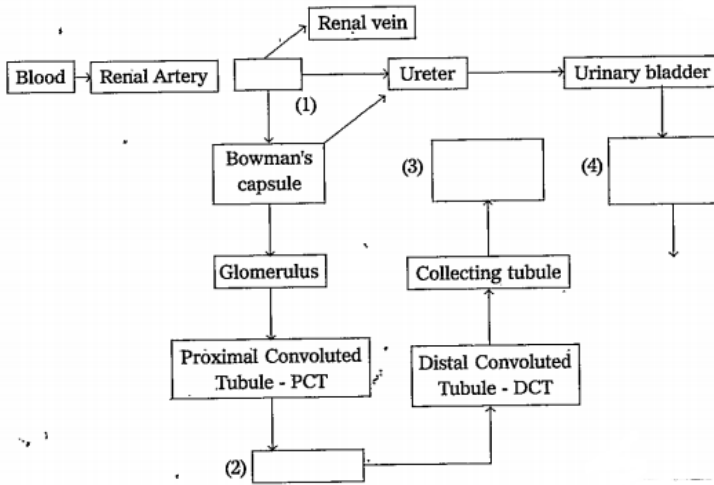
Watch Video Solution

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 (Carcinogenic 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 ?



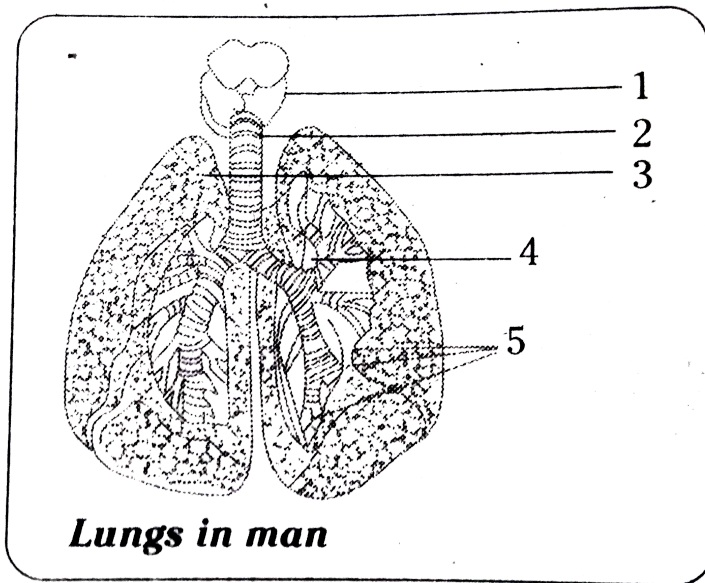
Watch Video Solution

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



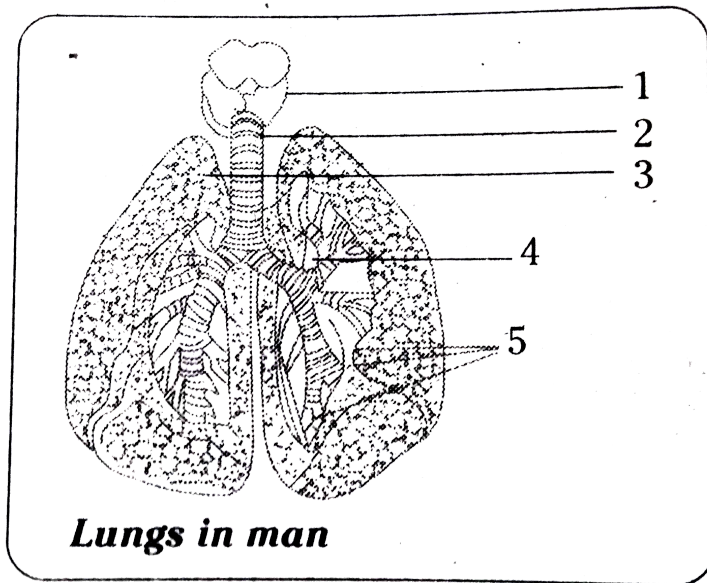
Watch Video Solution

34. Label the parts for given diagram .



Watch Video Solution

35. Label the parts for given diagram .



Watch Video Solution

36. Draw the flow chart of process of haemodialysis.



[Watch Video Solution](#)

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



[Watch Video Solution](#)

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

Henle and label it.



Watch Video Solution

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



Watch Video Solution

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?



Watch Video Solution

41. Which plants can you get in your village ?

Among these by products of which plants do you use in your real life?



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

Exercise

1. What are the wastes produced during metabolic activities ?



Watch Video Solution

2. What are the substances present in them ?



Watch Video Solution

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



Watch Video Solution

4. What is meant by excretion?





Watch Video Solution

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



Watch Video Solution

6. Mechanism of urine formation involves



Watch Video Solution

7. What is the nature of the chyme ?



Watch Video Solution

8. How are waste products excreted in amoeba ?



Watch Video Solution

9. Amoeba is an unicellular organism. No special- excretory organs are present in it. How

does amoeba manage to send waste material from its body ?



Watch Video Solution

10. Excretory organs in birds



Watch Video Solution

11. 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.



Watch Video Solution

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



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



Watch Video Solution

14. How do plants manage the waste materials?



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

17. 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.



Watch Video Solution

18. With help of flow chart explain the process of haemodialysis.



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

21. Give reasons.

Always vasopressin is not secreted.



Watch Video Solution

22. Give reasons.

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



Watch Video Solution

23. Explain the process of formation of urine.



Watch Video Solution

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



Watch Video Solution

25. Write differences between,

A. Functions of PCT and DCT



Watch Video Solution

26. Write difference

Kidney and artificial kidney



Watch Video Solution

27. Write difference

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



Watch Video Solution

28. Write difference

Excretion and secretion



Watch Video Solution

29. Write difference

Primary metabolites and secondary metabolites



[Watch Video Solution](#)

30. 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](#)

31. Suggest a practice to keep your kidneys healthy.



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

35. How can I prevent formation of stone in kidney?



Watch Video Solution

36. Does a renal failure hereditary?



Watch Video Solution

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



Watch Video Solution

38. How does diabetes harm kidneys?



Watch Video Solution

39. Suggest a practice to keep your kidneys healthy.



Watch Video Solution

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



Watch Video Solution

41. Hormone released by hypothalamus, which is related with the functioning of kidney is



Watch Video Solution

42. Is there any relationship between blood pressure and kidney function?



Watch Video Solution

43. What are the kidney function tests?



Watch Video Solution

44. What kind of medications should I avoid?



Watch Video Solution

45. What are the symptoms of uremia ?



Watch Video Solution

46. How frequently should my kidney function be checked?



Watch Video Solution

47. How frequently should my kidney function be checked?



Watch Video Solution

48. What causes chronic kidney disease ?



Watch Video Solution

49. How much water should I drink per a day?



Watch Video Solution

50. Why is smoking bad for the kidneys?



Watch Video Solution

51. What causes chronic kidney disease ?



Watch Video Solution

52. Who is most prone to kidney disease?



Watch Video Solution

53. What can I do to help fight against kidney disease?



Watch Video Solution

54. What will happen if one kidney is removed from the body of a human being?



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

57. Draw a neat labelled diagram of L.S of kidney.



Watch Video Solution

58. Describe the structure of nephron with the help of diagram.



Watch Video Solution

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



Watch Video Solution

60. If you want to explain the process of filtration in kidney what diagram you need to draw.



Watch Video Solution

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



Watch Video Solution

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



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



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64. 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

65. Earthworm excretes its waste material through



Watch Video Solution

66. The dark coloured outer zone of kidney is called



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

70. Bowman's Capsule + Glomerulus=.....



Watch Video Solution

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



Watch Video Solution

72. What is the principle involved in dialysis?



Watch Video Solution

73. Rubber is produced from of
Heavea braziliensis .



Watch Video Solution

74. Who performed the first kidney transplantation?



Watch Video Solution

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

A. Neuron

B. Nephron

C. Nephridia

D. Flame cell

Answer:



Watch Video Solution

76. The excretory organ in cockroach

A. Malphigian tubules

B. Raphids

C. Ureters

D. Nephridia

Answer:



Watch Video Solution

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

A. i, ii, iv, iii

B. i, ii, iii, iv

C. iv, iii, i, ii

D. ii, iii, i, iv

Answer:



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78. Malpighian tubules are excretory organs in

A. Earthworm

B. Housefly

C. Flatworm

D. Hen

Answer:



[Watch Video Solution](#)

79. Major component of urine is

A. Urea

B. Sodium

C. Water

D. Creatine

Answer:



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80. Special excretory organs are absent in

A. Birds

B. Amoeba

C. Sponges

D. A and B

Answer:



Watch Video Solution

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

A. Adrenal

B. Vasopressin

C. Testosterone

D. Oestrogen

Answer:



Watch Video Solution

82. Amber colour to urine due to

A. Urochrome

B. Bilirubin

C. Biliverdin

D. Chlorides

Answer:



Watch Video Solution

83. Sequence of urine formation. in nephron is

A. Glomerular filtration → Tubular reabsorption → Tubular secretion

B. Tubular reabsorption → Tubular secretion → Glomerular filtration

C. Tubular secretion → Glomerular filtration → Tubular reabsorption

D. Tubular reabsorption → Concentration of urine → Tubular secretion

Answer:



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84. Part of the nephron that exists in outer zone of kidney

A. Loop of the Henle

B. PCT

C. DCT

D. Bowman's capsule

Answer:



Watch Video Solution

85. 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:



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

88. What is the shape of kidneys?



Watch Video Solution

89. What is the colour of kidney?



Watch Video Solution

90. Do you find any attachments on upper portion of kidney



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

93. How many tubes are coming out from kidney fissure



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

97. What are the substances present in blood ?



Watch Video Solution

98. What are the substances present in urine ?



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

105. Why more urine is produced in winter ?



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

110. Do roots secrete ?



Watch Video Solution

111. Why do we get peculiar smell when you shift the potted plants.



Watch Video Solution

112. What products would the organism be able to take up for other activities ?



Watch Video Solution

113. From where are these materials removed ?



Watch Video Solution

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



Watch Video Solution

115. What happens if both kidneys fail completely ?



Watch Video Solution

116. Collect information on sebum and prepare a news bulletin, display it on bulletin board.



Watch Video Solution

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



Watch Video Solution

118. Name the alkaloids which are harmful to us.



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

123. Do plants excrete like animals ?



Watch Video Solution

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



Watch Video Solution

125. Do cells need excretion ?



Watch Video Solution

126. Why are we advised to take sufficient water ?



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

129. Why is urine yellow in color ?



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

133. Give two examples for secondary metabolites.



Watch Video Solution

134. a) The urine gets concentrated by reabsorption of water.

b) Vasopressin is secreted only when concentrated urine is to be passed out



Watch Video Solution

135. Draw the structure of an excretory organ, Which contains Bowman's capsule and loop of Henle and label it.



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

139. 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



Watch Video Solution

140. What are the excretory organs of earthworm?



Watch Video Solution

141. Correct the Ravi's answers from the following questions.

4) Morphine works as a pain killer.



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142. 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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| 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 |

143.

(A) Which test is required to know bilirubin?



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| 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 |

144.

(B) How the sugar disease is confirmed?



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145. 

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



Watch Video Solution

| 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 |

146.

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



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147. 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 ?



Watch Video Solution

148. 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 |

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



Watch Video Solution

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



Watch Video Solution

151. What are the accessory excretory organs of man ?



Watch Video Solution

152. What are the accessory excretory organs of man ?



Watch Video Solution

153. Write a short note on liver. How it is working as an accessory excretory organ?



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



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



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



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



Watch Video Solution

158. What is Anabolism ?



Watch Video Solution

159. What is Catabolism ?



Watch Video Solution

160. What are the wastes produced during metabolic activities ?



Watch Video Solution

161. What are the substances present in blood ?



Watch Video Solution

162. What are the substances present in urine ?



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

166. Where are the kidneys present in human body ?



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167. What is the size of the kidney ?



Watch Video Solution

168. Which artery brings oxygenated blood to kidney ?



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

171. What is the other name of Nephron ?



Watch Video Solution

172. What are the two basic parts of nephron ?



Watch Video Solution

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



Watch Video Solution

174. What does renal tubule consist of ?



Watch Video Solution

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



Watch Video Solution

176. What is the function of loop of Henle ?



Watch Video Solution

177. What is the function of Distal convoluted tubule ?



Watch Video Solution

178. Formation of urine involves.....stage



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

181. a) The urine gets concentrated by reabsorption of water.

b) Vasopressin is secreted only when concentrated urine is to be passed out



Watch Video Solution

182. What is micturation ?



Watch Video Solution

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



Watch Video Solution

184. What is uremia ?



Watch Video Solution

185. What are the symptoms of uremia ?



Watch Video Solution

186. What is haemodialysis ?



Watch Video Solution

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





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



[Watch Video Solution](#)

189. What is cadaver transplantation ?



[Watch Video Solution](#)

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



Watch Video Solution

191. What are the waste products removed by lungs ?



Watch Video Solution

192. What are the wastes sebum of sebaceous glands in skin contains?



Watch Video Solution

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



Watch Video Solution

194. How is urea produced in liver ?



Watch Video Solution

195. What are the wastes excreted by intestine ?



Watch Video Solution

196. How do unicellular organisms remove waste products ?



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

200. What are Raphides ?



Watch Video Solution

201. What are tannins ?



Watch Video Solution

202. In which group of plants does resin occur?



Watch Video Solution

203. Give two examples for gum yielding plants.



Watch Video Solution

204. What is latex ?



Watch Video Solution

205. Para rubber is obtained from the latex of



Watch Video Solution

206. Bio- diesel is obtained from the seeds of ?



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

210. Why more urine is excreted ?



Watch Video Solution

211. What are the uses of tannins ?



Watch Video Solution

212. What is the economic importance of gums ?



Watch Video Solution

213. What is osmoregulation ?



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

216. What is the basic reason of urine production ?



Watch Video Solution

217. Due to availability of less water, how do the plants cope up with lack, of water in desert conditions ?



Watch Video Solution

218. What are nitrogenous wastes ?



Watch Video Solution

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



Watch Video Solution

220. Why does the ingestion of alcohol increase urination?



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

226. What are the substances that secrete into distal convoluted tubule (DCT)?



Watch Video Solution

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



Watch Video Solution

228. 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

229. Classify the substances given below.

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



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



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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

234. Why the glomeruli are considered as dialysis bags ?



Watch Video Solution

235. Explain the formation of urine in a flow chart



Watch Video Solution

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



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



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238. Give an account of excretory system found in different phyla of animal kingdom.



Watch Video Solution

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



Watch Video Solution

240. Describe the excretory system of man, giving the structure of a nephron.



Watch Video Solution

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



Watch Video Solution

242. Give reasons.

Diameter of afferent arteriole is bigger than efferent arteriole.



Watch Video Solution

243. Write difference

Primary metabolites and secondary metabolites



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

247. In the observation of kidney external and internal features experiment, what are your observations?



Watch Video Solution

248. Draw a neat labelled diagram of Human's main excretory system. Write the function of urinary bladder.



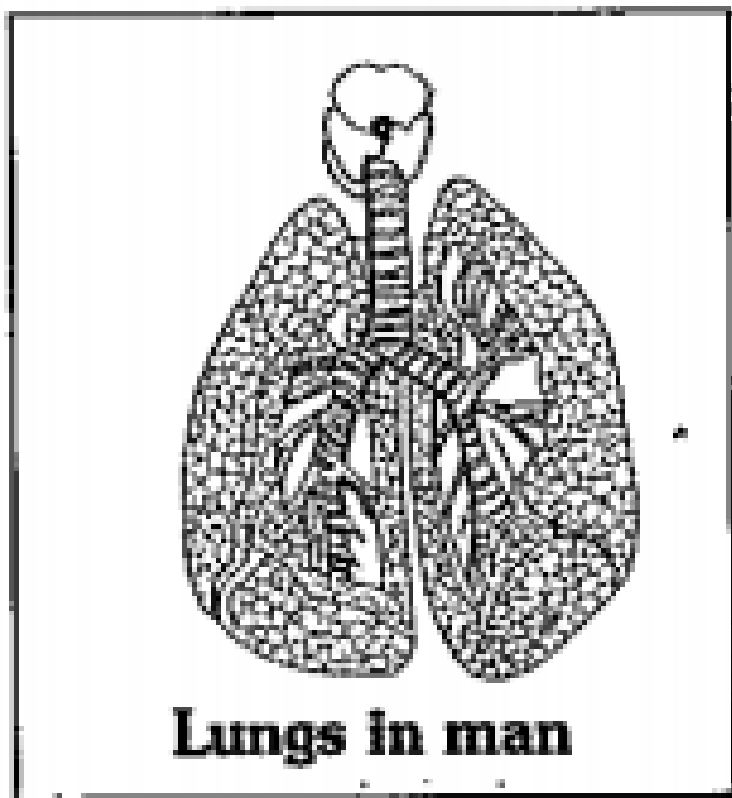
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249. Draw neat labelled diagram of the functional unit of kidney. Write main function of Glomerulus.



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250. Label the parts for given diagram.



Watch Video Solution

251. Draw the flow chart of process of haemodialysis.



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252. Write an essay stating the advantages of by-products of plants in our real life.



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253. What are secondary metabolites ?



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254. Blood is purified in kidneys. So many wastes are removed from the blood in nephron of the kidney. Which issue make you surprise in excretory system?



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



Watch Video Solution

257. What are secondary metabolites ?



Watch Video Solution

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

A. Reserpine

B. Quinine

C. Coffeine

D. Scopolamine

Answer:



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259. An excretory system is absent in

A. Bird

B. Amoeba

C. Sponge

D. B and C

Answer:



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260. Incorrect pair in the following

- A. Platyhelminthes - Flame cells
- B. Arthropoda - Malpighian tubules
- C. Mollusca - Metanephridia
- D. Protozoa - Water vascular system

Answer:



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261. Urine formation mechanism have the following 4 steps. Arrange them systematically.i)Tubular reabsorption,ii)Glomerular filtration,iii) Concentration of urine, iv) Tubular secretion

A. (i),(ii),(iii),(iv)

B. (iv), (iii), (ii),(i)

C. (iii),(ii),(i),(iv)

D. (ii),(i),(iv),(iii)

Answer:



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262. Choose the correct pair.

- A. Protozoa - Flame cells
- B. Annelida - Kidneys
- C. Echinodermata - Nephridia
- D. Arthropoda - Green glands

Answer:



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263. Excretory organs in platyhelmenthes

- A. Nephridia
- B. Flame cells
- C. Green glands
- D. Kidneys

Answer:



Watch Video Solution

264. Identify the wrong sentence.

A. Taking a carbohydraterich-diet will result
in more formation of Uric acid In urine.

B. Sugar appears in urine of a diabetic
person

C. Urine has amber colour due to presence
of Urochrome,

D. A large intake of liquids or water
increases the volume of water, hence

more urine is excreted.

Answer:



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

A. Urea

B. Uric acid

C. Ammonia

D. Biliverdin

Answer:



Watch Video Solution

266. The dark coloured outer zone of kidney is called

A. Cortex

B. Medulla

C. Pyramid

D. Calyces

Answer:



Watch Video Solution

267. The kidneys

A. Regulate blood volume

B. Control blood pressure

C. Control PH

D. All the above

Answer:



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268. All of the following belong to the urinary system except

A. urethra

B. Ureter

C. Bladder

D. Prostrate

Answer:



Watch Video Solution

269. Under normal conditions which one is completely reabsorbed in the renal tubule?

A. Proximal convoluted tubule

B. Distal convoluted tubule

C. Collection ducts

D. Loop of Henle

Answer:



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

- A. potassium ions
- B. Hydrogen ions
- C. Ammonium ions

D. All the above

Answer:



Watch Video Solution

271. Which of the following is correct?

A. Quinine - Pain killer

B. Scopolamine - Medicine for snake bite

C. Nicotine- antiseptic

D. Morphine - pain killer

Answer:



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272. Arrange the following parts in sequential order.

i) Collecting tube ii) Pyramids

iii) DCT iv) Ureters

v) Pelvis vi) Calyces

A. I, I, II, vi, v, iv

B. i, II, iii, iv, vi, v

C. iii),i),ii),v),iv),vi)

D. V),iv),vi),i),ii),iii)

Answer:



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273. All the following are principle solutes of urine except

A. Urea

B. creatinine

C. Glycogen

D. Uric acid

Answer:



Watch Video Solution

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

A. Renin

B. Vasopressin

C. Aldosterone

D. Insulin

Answer:



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

A. The active reabsorption of sodium

B. The active reabsorption of chloride ions

C. The passive reabsorption of potassium

D. The passive reabsorption of urea

Answer:



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276. What might be the reason for renal vein carries, pure deoxygenated blood ?

A. filtering of waste material

B. deoxygenated blood enter through renal artery

C. During process of filtration oxygen is utilised

D. Due to presence of more glucose

Answer:



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277. Which of the following would lead to increase urine production?

- A. Increased activity levels
- B. Increased body temperature
- C. Decreased water consumption
- D. Increased water consumption

Answer:



Watch Video Solution

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

A. Raphides

B. Podocytes

C. Erythrocytes

D. Dopocytes

Answer:



Watch Video Solution

279. Mechanism of urine formation involves

- A. Glomerular filtration
- B. Tubular secretion
- C. Tubular reabsorption
- D. All the above

Answer:



Watch Video Solution

280. Under normal conditions which one is completely reabsorbed in the renal tubule?

A. filtrate

B. Solvent

C. Plasma

D. Urine

Answer:



Watch Video Solution

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

A. Secretion and digestion

B. Reabsorption and selection

C. Ultrafiltration and selective reabsorption

D. Filtration and peristalsis

Answer:



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282. Glomerulus in kidney is formed by

A. Afferent arteriole

B. Efferent arteriole

C. Renal artery

D. Renal vein

Answer:



Watch Video Solution

283. Write the equation for the chemical decomposition reaction of silver chloride in the presence of sunlight.

A. Blood cells

B. Plasma

C. Water

D. Urea

Answer:



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

A. Proximal convoluted tubule

B. Loop of Henle

C. Distal convoluted tubule

D. Collecting duct

Answer:



Watch Video Solution

285. The glomerular capillary blood pressure causes filtration of blood through

A. Glomerulus

B. Pelvis

C. Proximal convoluted tubule

D. Loop of Henle

Answer:



Watch Video Solution

286. Tubular secretion ensures removal of all the waste products from blood like

A. Urea,uric acid

B. creatinine

C. Slot ions like K ,Na and H ions

D. All the above

Answer:



Watch Video Solution

287. Concentration of urine depends upon

- A. Vasopressin
- B. Insulin
- C. Aldosterone
- D. Adrenaline

Answer:



Watch Video Solution

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

A. 300-700 ml

B. 300-800 ml

C. 400-700 ml

D. 300-600 ml

Answer:



Watch Video Solution

289. Total amount of urine excreted per day is about

A. 1.5 to 1.7 liters

B. 1.6 to 1.8 liters

C. 1.4 to 1.6 liters

D. 1.3 to 1.5 liters

Answer:



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290. What are the substances present in urine ?

A. Nitrogenous wastes

B. Salts

C. Proteins

D. Sugars

Answer:



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291. 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 the first kidney transplantation surgery between two identical twins.

A. William Harvey,

B. Charles hufnagle

C. Robert Peterson

D. Norman Borlag

Answer:



Watch Video Solution

292. The excretory organ that removes carbon dioxide and water is

A. Kidney

B. Skin

C. Lung

D. Liver

Answer:



Watch Video Solution

293. Consider the following statements.

I) Dead cells of the skin prevents pathogen entry. II) Skin secretes oil that makes skin surface acidic. III) Skin secretes sweat that makes surface acidic.

Which of the following given above are correct?

A. Water

B. Salts

C. Urea

D. Water and salts

Answer:



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294. What are sebaceous glands? What is their function?

A. Waxes, sterols

B. Sterols, carbohydrates

C. Waxes, fatty acids

D. Waxes, sterols hydro carbon and fatty
acid

Answer:



Watch Video Solution

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

- A. Bilirubin, biliverdin and urochrome
- B. Urea, uric acid
- C. Water , mineral salts
- D. Bilirubin , water

Answer:



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296. What are the wastes excreted by intestine ?

A. Calcium

B. calcium, magnesium

C. Magnesium, iron

D. Calcium, magnesium and iron

Answer:



Watch Video Solution

297. How do unicellular organisms remove waste products ?

A. Earthworm

B. Amoeba

C. Starfish

D. Planaria

Answer:



Watch Video Solution

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

A. Annelids, Arthropods

B. Platyhelminthes and Nematoda

C. Mollusca

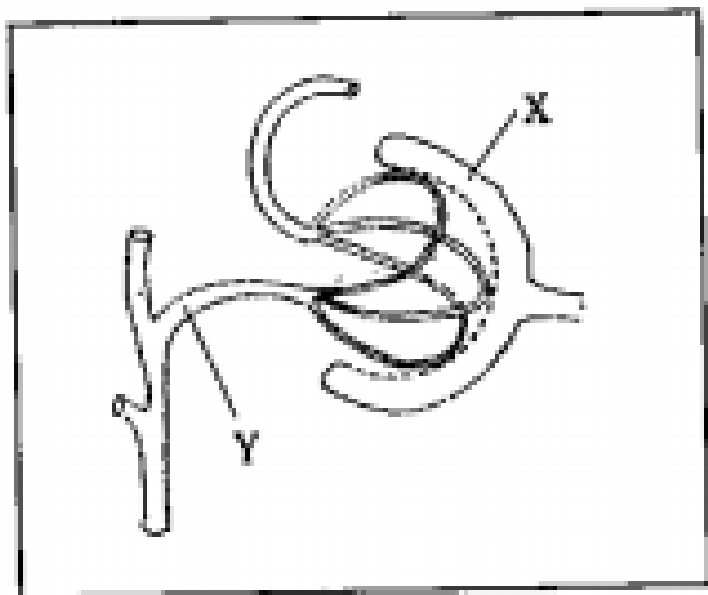
D. Echinodermata

Answer:



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299. Identify the 'X' and 'Y' in the given



diagram

- A. PCT and Bowman's capsule
- B. Bowman's capsule and efferent arteriole
- C. Bowman's capsule and afferent arteriole
- D. Glomerulus and efferent arteriole

Answer:



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300. In Annelids this is the excretory organ

- A. Meta nephridia
- B. Nephridia
- C. Green glands
- D. Malphigian tubules

Answer:



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301. In starfish excretory system is

- A. Canal system
- B. Malphigian tubules
- C. Water vascular system
- D. Green glands

Answer:



[Watch Video Solution](#)

302. In plants waste products are stored in

- A. Leaves ,bark
- B. Bark , fruits
- C. Leaves ,fruits
- D. Leaves ,bark and fruits

Answer:



Watch Video Solution

303. What are primary metabolites?

A. Fats

B. Gum

C. Latex

D. Tannins

Answer:



Watch Video Solution

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

A. Carbon

B. Oxygen

C. Nitrogen

D. Phosphorous

Answer:



Watch Video Solution

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

A. Reserpine

B. Caffeine

C. Nimbin

D. Quinine

Answer:



Watch Video Solution

306. Antiseptic Nimbin is obtained from these parts of neem tree

A. Seeds

B. Barks

C. Leaves

D. All the above

Answer:



Watch Video Solution

307. Gums : Adhesive agents , Latex of Jatropa:

☐ ?

A. Food

B. Paints

C. Varnishes

D. Food and medicine

Answer:



Watch Video Solution

308. Rubber is produced from of *Heavea braziliensis* .

A. Plastic

B. Resin

C. Rubber

D. Gum

Answer:



Watch Video Solution

309. Pollen grains cause allergy. What might be the reason for this?

- A. Carbon substances
- B. Nitrogenous substances
- C. Sulphur substance
- D. All the above

Answer:



Watch Video Solution

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

A. Thyroid

B. Pancreas

C. Adrenal gland

D. Pituitary gland

Answer:



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311. Diabetes insipidus occurs due to the deficiency of

- A. Insulin
- B. Vasopressin
- C. Adrenaline
- D. Paratharmone

Answer:



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312. Read the table and answer the following.

| Name the organisms | Excretory system |
|--------------------|---------------------------------|
| Protozoa | Simple diffusion |
| Pörifera | water bathes |
| Platyhelminthes | Flame cells |
| Arthropods | Greenglands, Malphigian Tubules |
| Mollusca | Metanephridia |
| Echinodermata | Water vascular system |

1. Name the excretory organs in protozones.

A. Flame cells

B. Green glands

C. Malphigian tubules

D. Green glands , malphigian tubules

Answer:



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

- A. He will survive and remain normal
- B. He will die
- C. Urea will go on accumulating in the blood

D. Urination will stop

Answer:



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

A. Glomerulus

B. Pyramids

C. Calyes

D. Ureter

Answer:



Watch Video Solution

315. Identify the correct sentence given below

A. Right kidney - slightly lower than left

kidney

B. Right kidney slightly higher than left

kidney

C. Right kidney - left kidney are same height

D. Right kidney-is nearer to vertebral Column than left kidney

Answer:



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316. Morphine, Cocaine are extracted from this part of *Papaver Somniferum*

A. Bark

B. Fruit

C. Root

D. Seed

Answer:



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

A. Rauwolfia serpentine

B. Azadirachta indica

C. Cinchona officinalis

D. Nicotiana glauca

Answer:



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318. Nicotine is prepared from this part of
Nicotiana glauca

A. Leaves

B. Bark

C. Root

D. Seed

Answer:



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319. Nimbin is an antiseptic, extracted from the seeds, barks, leaves of

- A. *Cinchona officinalis*
- B. *Papaver somniferum*
- C. *Azadirachta indica*
- D. *Chrysanthemum*

Answer:



Watch Video Solution

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

A. Seed

B. Root

C. Fruit

D. Flower

Answer:



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321. Name the sedative extracted from the flower and fruit of *Datura stramonium*?

A. Nimbin

B. Scopolamine

C. Pyrethroids

D. Reserpine

Answer:



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

A. Platyhelmenthes and nematoda

B. Porifera and coelenterata

C. Arthropoda,mollusca

D. Mollusca , Echinodermata

Answer:



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323. Malpighian tubules are excretory organs
in

A. Annelids

B. Arthropoda

C. Mollusca

D. Echinodermata

Answer:



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

A. Nephridia

B. Water vascular system

C. Metanephridia

D. Kidneys

Answer:



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

A. Echinodermata

B. Mollusca

C. Annelids

D. Arthropoda

Answer:



Watch Video Solution

326. Peritubular capillaries are formed from

A. Afferent arteriole

B. Efferent arteriole

C. Renal artery

D. Glomerulus

Answer:



Watch Video Solution

327. Blood flows inside the glomerulus under the influence of pressure due to the

A. Broader diameter of the efferent arteriole

B. Broader diameter of the afferent arteriole

C. Narrowness of afferent arteriole

D. Narrowness of efferent arteriole

Answer:



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328. Karthik is suffering from excess sugar in urine and Varun is suffering from repeated dilute urination. What are the reasons for these diseases ? Explain.

- A. Diabetes mellitus
- B. Diabetes insipidus
- C. Haemophilia
- D. Thalasemia

Answer:



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329. Which blood vessel contains the least amount of urea?

- A. Plasma
- B. Blood
- C. RBC
- D. WBC

Answer:



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330. Mammalian kidney resemble contractile vacuole of Amoeba in excretion of

- A. Expelling out excess of water
- B. Expelling out glucose
- C. Expelling out urea and uric acid
- D. Expelling out salts

Answer:



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331. Glucose is reabsorbed in the kidney mainly by

- A. Glomerulus
- B. Loop of the henle
- C. Proximal convoluted tubule
- D. Bowman's capsule

Answer:



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332. Excess amino acids in the body are broken down to form urea in

A. Kidney

B. Liver

C. Spleen

D. Pancreas

Answer:



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333. Complete loop of Henle is found in

A. Medulla

B. Cortex

C. Pelvis

D. Pyramid

Answer:



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334. Excretion of bile pigments in urine indicates

- A. Anaemia
- B. Diabetes
- C. Uremia
- D. Jaundice

Answer:



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335. It- (I) Liver - Liver lobule

II. kidney- Uriniferous tubule

III. Ecolog:y - X

then what does "X" represent ?

A. Kidneys

B. Testes

C. Ovary

D. Stomach

Answer:



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

A. Chrysanthemum

B. Parthenium

C. Datura stramonium

D. Arachis hypogea

Answer:



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337. Secretions occur in plant body in the form of

A. Enzymes

B. Hormones

C. Saliva

D. Latex

Answer:



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338. Earthworm excretes its waste material through

A. Metanephridia

B. Nephridia

C. Flame cells

D. Book lungs

Answer:



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339. The inner medullary region of kidney is in

- A. Dark color
- B. Pale colour
- C. White colour
- D. Thick colour

Answer:



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340. Osmo regulation is the process of control of

A. Water balance and ion concentration

B. Salts balance and ion concentration

C. Water balanced and get rid of
nitrogenous wastes

D. Salts balance and get rid of nitrogenous
waste

Answer:



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

- A. Distal convoluted tubule
- B. Loop of Henle
- C. Proximal convoluted tubule
- D. Glomerulus

Answer:



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342. Metabolic inhibitors which prevent active uptake of ions in plants are

- A. Gums, Latex
- B. Resins, Alkaloids
- C. Tannins
- D. All the above

Answer:



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

- A. Alveoli
- B. Nephron
- C. Neuron
- D. Axon

Answer:



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344. The alkaloid used for malaria treatment is

..... .

A. Cocaine

B. Reserpine

C. Quinine

D. Nimbin

Answer:



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345. The principle involved in dialysis is

- A. Osmosis and filtration
- B. Diffusion and filtration
- C. Osmosis and diffusion
- D. Diffusion and osmoregulation

Answer:



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346. Para rubber is obtained from the latex of

A. *Hevea braziellensis*

B. *Acacia melanoxylon*

C. *Azadirachta indica*

D. *Pongamia glabra*

Answer:



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347. Dialysis machine was invented by

A. Dr. Willem Johan Kolff

B. Charles Hufnagel

C. Dr. Paul Flechsig

D. Rene Lennac

Answer:



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

A. Digestion

B. Excretion

C. Transport

D. Circulation

Answer:



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349. 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

A. Pancreas

B. Lung

C. Liver

D. Stomach

Answer:



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

- A. Renal vein
- B. Renal artery
- C. Hepatic artery
- D. Hepatic vein

Answer:



Watch Video Solution

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

A. Liver

B. Brain

C. Kidney

D. Lung

Answer:



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

- A. Renal tubule
- B. Glomerulus
- C. Proximal convoluted tubule
- D. Distal convoluted tubule

Answer:



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

- A. Proximal convoluted tubule
- B. Distal convoluted tubule
- C. Ascending loop of Henle
- D. Descending loop of Henle

Answer:



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

- A. Descending loop of Henle
- B. Ascending loop of Henle
- C. Distal conyoluted tubule
- D. Proximal convoluted tubule

Answer:



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355. 10% of water passes out of filtrate through osmosis in the area of

- A. Proximal convoluted tubule
- B. Distal convoluted tubule
- C. Loop of Henle
- D. Bowman's capsule

Answer:



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

A. urethra

B. ureter

C. hilus

D. calyces

Answer:



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357. Length of each ureter is

A. 30 cm

B. 35cm

C. 25 cm

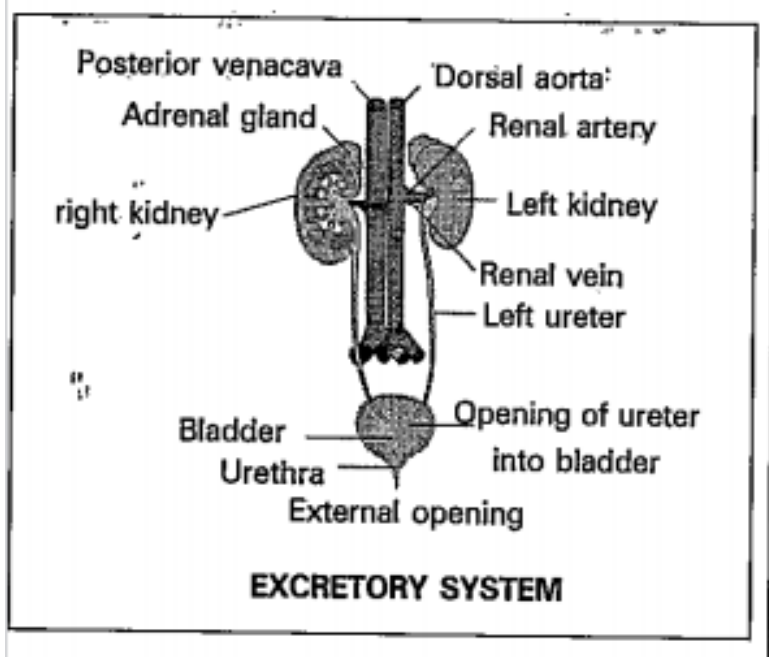
D. 20cm

Answer:



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358. Observe the diagram and answer the following question.



3. What is the function of Urinary bladder.

A. Ureter

B. Uterus

C. Urethra

D. Uremia

Answer:



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359. Way of passage of urine in human body

A. Kidney

B. Ureters

C. Urethra

D. Urinary bladder

Answer:



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360. What is not really concerned with excretion?

A. To send CO_2 , out

B. Defecation

C. Sweat

D. To remove urea

Answer:



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361. Consider the following

a) Urethra is 4 cm long in females

b) Urethra is 20 cm in male

A. Males

B. Females

C. In males and females

D. None

Answer:



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362. Urine has amber colour due to presence of

A. Biliverdin

B. Bilirubin

C. Urea

D. Urochrome

Answer:



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363. The sphincter muscle which is under the control of human will for urination is

A. Lower sphincter

B. Upper sphincter

C. Middle sphincter

D. All of the above

Answer:



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364. The failure of the kidney is called.....

A. ESRD

B. MSRD

C. ASRD

D. KSRD

Answer:



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365. The volume of water in the blood increases due to

A. Large intake of liquids

B. Large intake of water

C. Large intake of liquids and water

D. Intake of protein rich diet

Answer:



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366. End stage renal disease is

A. Complete reversible kidney failure

B. Complete and irreversible kidney failure

C. Incomplete reversible kidney failure

D. Incomplete irreversible kidney failure

Answer:



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367. A woman 'S' is in uremia stage.

Therefore.....

(i) Legs and hands are swollen

(ii) Body is accumulated with water and wastes

(iii) Weakness and tiredness

(iv) No harm to kidneys

A. Extra Water

B. Waste products

C. Extra water and waste products

D. Urea

Answer:



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368. Explain the purification of colloids by dialysis and ultrafiltration.

A. Chemodialysis

B. Haemodialysis

C. Urodialysis

D. Transplantation

Answer:



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369. Which of the following substance, if introduced into the blood stream, would cause coagulation of blood at the site of its introduction?

A. Heparin

B. Sodium citrate

C. Heparin

D. Coumadin

Answer:



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370. Dialysis is similar to function of the kidney but is different as there is no involvement of

- A. Absorption
- B. Reabsorption
- C. Osmoregulation
- D. None

Answer:



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371. What is dialysis ? How is dialysis can be made fast ?

A. 5 to 6 hours

B. 4 to 5 hours

C. 3 to 6 hours

D. 3 to 4 hours

Answer:



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372. The glomerular capillary blood pressure causes filtration of blood through

- A. Bowman's capsule
- B. Henle's loop
- C. Proximal convoluted tubule
- D. Distal convoluted tubule

Answer:



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373. What are pigments secreted by liver?

- A. Billverdin, Bilirubin
- B. Biliverdin, Urochrome
- C. Bilirubin, Biliverdin, Urochrome
- D. Urochrome, Bilirubin

Answer:



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374. Which are wastes eliminated by saliva and tears in small proportions?

- A. Urea
- B. Nitrogenous wastes
- C. Uric acid
- D. All of the above

Answer:



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375. Contractile vacuole is important for excretion in

A. Amoeba

B. Paramecium

C. Amoeba, Paramecium

D. Hydra

Answer:



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376. An excretory system is absent in

A. Bird

B. Amoeba

C. Sponge

D. B and C

Answer:



Watch Video Solution

377. Excretory organs are first appear in

A. Nematelmenthes

B. Porifera

C. Coelenterates

D. Platyhelmenthes

Answer:



Watch Video Solution

378. Plants get rid of water thorough the process

A. Guttation

B. Transpiration

C. Both Guttation and Transpiration

D. Excretion

Answer:



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379. Name the waste which get stored in fruits in the form of solid bodies.

A. Raphides

B. Gums

C. Stones

D. Latex

Answer:



Watch Video Solution

380. Mycorrhiza is a symbiotic relationship between roots of higher plants and

A. Lactobacillus

B. Streptococcus

C. Rhizobium

D. Salmonella

Answer:



Watch Video Solution

381. Resin passage are present in

- A. Angiosperms
- B. Gymnosperms
- C. Pteridophytes
- D. Bryophytes

Answer:



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

A. Alkaloids

B. Tannins

C. Gums

D. Resins

Answer:



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

A. Jatropha

B. Eucalyptus

C. Acacia

D. Parthenium

Answer:



Watch Video Solution

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

A. Nerium

B. Parthenium

C. Chicle

D. Acacia

Answer:



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385. What are tannins ?

A. Nitrogen

B. Phosphorous

C. Carbon

D. Sulphur

Answer:



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386. If a man takes in large amount of proteins he is likely to secrete more amount of

A. Urea

B. Uric acid

C. Ammonia

D. Creatinine

Answer:



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

- A. Selective absorption
- B. Tubular secretion
- C. Glomerular filtration
- D. Micturition

Answer:



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388. Which of the following is present in primary urine but is generally absent in urine in a healthy man ?

A. Large proteins

B. Creatinine

C. Urea

D. Glucose

Answer:



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

The permanent solution for kidney failure is dialysis.

A. Kidney transplantation

B. Blood transfusion

C. Haemodialysis

D. Plastic surgery

Answer:



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

- A. Renal artery
- B. Afferent arteriole
- C. Renal vein
- D. Efferent arteriole

Answer:



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391. In human deamination occur chiefly in

A. Kidneys

B. Lungs

C. Heart

D. Liver

Answer:



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392. Vicky's brother is a regular bed wetter?

What might be the reason for that?

- A. Less vasopressin secretion
- B. More vasopressin secretion
- C. No adequate secretion
- D. No secretion of vasopressin at all

Answer:



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

A. Kidney

B. Brain

C. Heart

D. Liver

Answer:



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394. The scientific name of Quinine is

A. *Papaver somniferum*

B. *Cinchona officinalis*

C. *Coffea Arabica*

D. *Azadirachta indica*

Answer:



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395. Podocytes cells are present in

A. Bowman's capsule

B. Tubule

C. Glomerulus

D. Malpighian tubule

Answer:



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396. The part of nephron involved in active reabsorption of sodium is

A. PCT

B. DCT

C. Loop of Henle

D. All of the above

Answer:



Watch Video Solution

397. Rubber is produced from of *Heavea braziliensis* .

A. Rubber

B. Gum

C. Tannins

D. Resins

Answer:



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398. Filtration of blood takes place at

A. Glomerulus

B. PCT

C. DCT

D. Loop of Henle

Answer:



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

A. Glomerulus

B. Tubular reabsorption

C. Tubular secretion

D. Ureters

Answer:



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400. Name the waste which get stored in fruits in the form of solid bodies.

A. Alkaloids

B. Tannins

C. Gums

D. Raphides

Answer:



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401. The alkaloid used as pain killer is

A. Reserpine

B. Morphine

C. Nicotine

D. Nimbin

Answer:



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402. What are secondary metabolites ?

A. Alkaloids

B. Tannins

C. Resins,Gums

D. All of the above

Answer:



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403. What is cadaver transplantation ?

A. Collecting of organs from brain dead persons

B. Receiving of organs from brain dead persons

C. Transplantation of organs from brain dead persons

D. None of the above

Answer:



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404. The waste material excreted by aquatic animals is

A. Nitrogen

B. Ammonia

C. Urea

D. Uric acid

Answer:



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405. Gymnosperms produce

A. Latex

B. Gum

C. Resins

D. Tannins

Answer:



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406. The white milky fluid secreted from the plants

A. Latex

B. Gum

C. Resins

D. Tannins

Answer:



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407. Which parts of *Jatropha Curcas* are used as bio-fuel ?

A. Stem

B. Leaves

C. Flowers

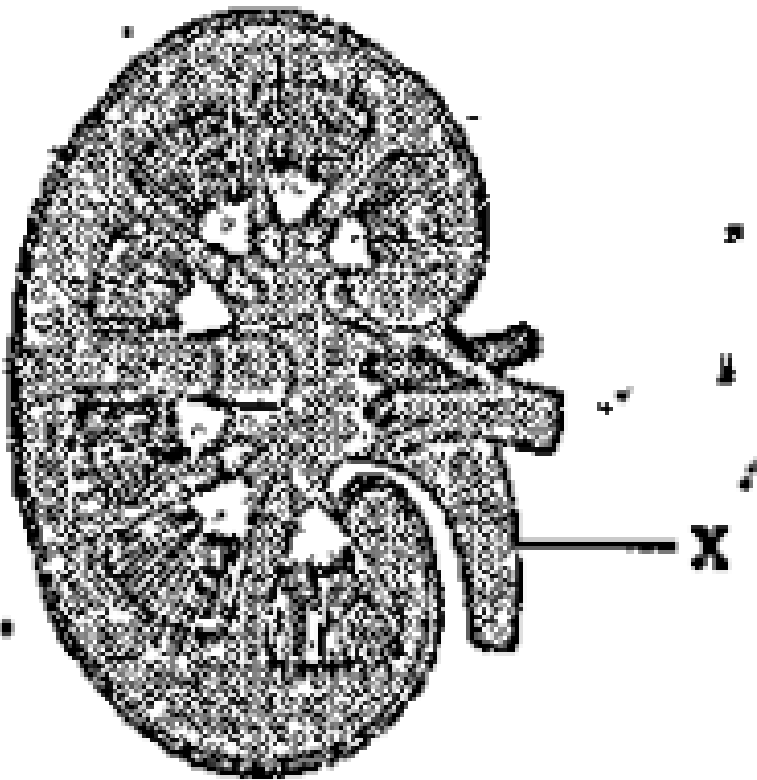
D. Seeds

Answer:



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408. identity 'x'



A. Cortex

B. Medulla

C. Nephron

D. Ureter

Answer:



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409. The word Excretion belongs to.....

Language

A. In

B. Out

C. Shift

D. None

Answer:



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410. Which nervous system control the secretion os saliva in the mouth ?

A. Enzymes

B. Hormones

C. Saliva

D. All of the above

Answer:



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411. A pair of whitish, narrow distensible and muscular tubes of kidneys are

A. Ureters

B. Nephron

C. DCT

D. PCT

Answer:



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412. Complete the table

| <i>Plant</i> | <i>Product</i> |
|---------------------|-----------------------|
| 1) Pinus | ? |
| 2) Cassia | Tannins |

A. Gum

B. Alkaloid

C. Latex

D. Resin

Answer:



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413. Complete this table

| <i>Plant</i> | <i>Product</i> |
|----------------------------|-----------------------|
| 1) Hevea brazy – lences | ? |
| 2) Jatropa | Bio-diesel |

A. Resin

B. Paints

C. Medicines

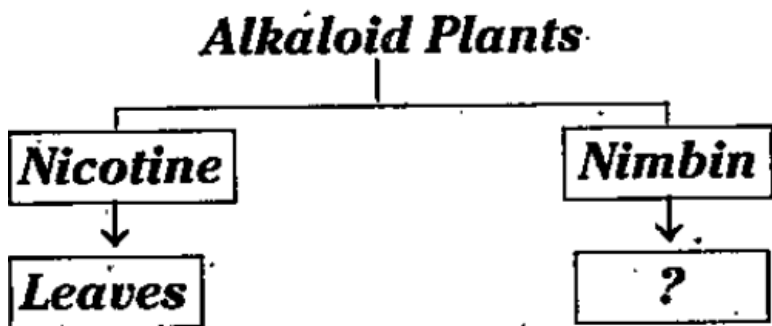
D. Rubber

Answer:



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414. Complete the flow chart .



A. Bark

B. Seeds

C. Leaves

D. All the above

Answer:



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

- A. Azadirachta
- B. Coffea
- C. Rauwolfia
- D. Chrysanthemum

Answer:



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416. Complete the table with correct answer.

| <i>Organism</i> | <i>Excretory organ</i> |
|------------------------|-------------------------------|
| 1) Earthworm | ? |
| 2) Flatworm | Flame cells |

A. Meta nephridia

B. Malphigian tubules

C. Canal system

D. Nephridia

Answer:



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417. Reserpine : Root, Quinine :

A. Leaves

B. Seeds

C. Bark

D. Flower

Answer:



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418. Caffeine : Seed, Scopolamine : ?

A. Leaf

B. Fruit

C. Flower

D. B and C

Answer:



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419. Morphine, Cocaine are extracted from this part of *Papaver Somniferum*

A. Rauwolfia

B. Coffea

C. Datura

D. Papaver

Answer:



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420. What are the uses of gums ?

- A. to stick the insects
- B. to excrete wastes
- C. to expel the alkaloids
- D.

Answer:



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421. Resins : , Gums : Adhesives

A. Tannins

B. Medicines

C. Ropes

D. Vernish

Answer:



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422. These are deep brown coloured Carbon compounds, which are commercially very useful. _____

A. Resins

B. Gums

C. Tannins

D. Alkaloids

Answer:



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423. Draw the diagram of nephron. Recognize the parts of glomerulus and tubular

reabsorption. Write how those actions take place.

A. Glomerulus

B. DCT

C. Henle's loop

D. PCT

Answer:



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424. Choose the correct option



In the figure 'X' denoted

zone, this process takes place. []

A. ultra filtration

B. tubular reabsorption

C. tubular secretion

D. concentration of urine

Answer:



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425. Concentration of urine depends upon

A. Thyroxine

B. Vasopressin

C. Insulin

D. Pituitary

Answer:



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426. Annelida : Nephredia, Mollusca:

A. Kidneys

B. Flame cells

C. Green glands

D. Meta Nephredia

Answer:



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427. Sponges: Canal system, Starfish: ?

A. Diffusion

B. Flame cells

C. Meta Nephredia

D. Water vascular system

Answer:



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428. Cockroach : Malpighian tubules, Snail:

..... ?

A. Green glands

B. Flame cells

C. Nephredia

D. Meta nephredia

Answer:



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429. Earthworm : Nephredia, Planaria:

?

A. Meta nephredia

B. Green glands

C. Flame cells

D. Canal system

Answer:



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