



# BIOLOGY

## BOOKS - NEET PREVIOUS YEAR (YEARWISE + CHAPTERWISE)

### EXCRETORY PRODUCTS AND THEIR ELIMINATION

Exercises

1. Which of the following statements is correct?

A. The ascending limb of loop of Henle is impermeable to water

B. The descending limb of loop of Henle is impermeable to water

C. The ascending limb of loop of Henle is permeable limb of loop of Henle is permeable to water

D. The descending limb of loop of Henle is permeable to electrolytes

**Answer: A**



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2. A decrease in blood pressure / volume will not cause the release of

A. renin

B. atrial natriuretic factor

C. aldosterone

D. ADH

**Answer: B**



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**3.** The part of nephron involved in active reabsorption of sodium is

A. distal convoluted tubule

B. proximal convoluted tubule

C. Bowman's capsule

D. descending limb of Henle's loop

**Answer: B**



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**4. Human urine is usually acidic because**

A. the sodium transporter exchanges one hydrogen ion for each sodium ion in peritubular capillaries

B. excreted plasma proteins are acidic

C. potassium and sodium exchange  
generates acidity

D. hydrogen ions are actively secreted into  
the filtrate

**Answer: D**



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5. Which of the following causes an increase in sodium reabsorption in the distal convoluted tubule

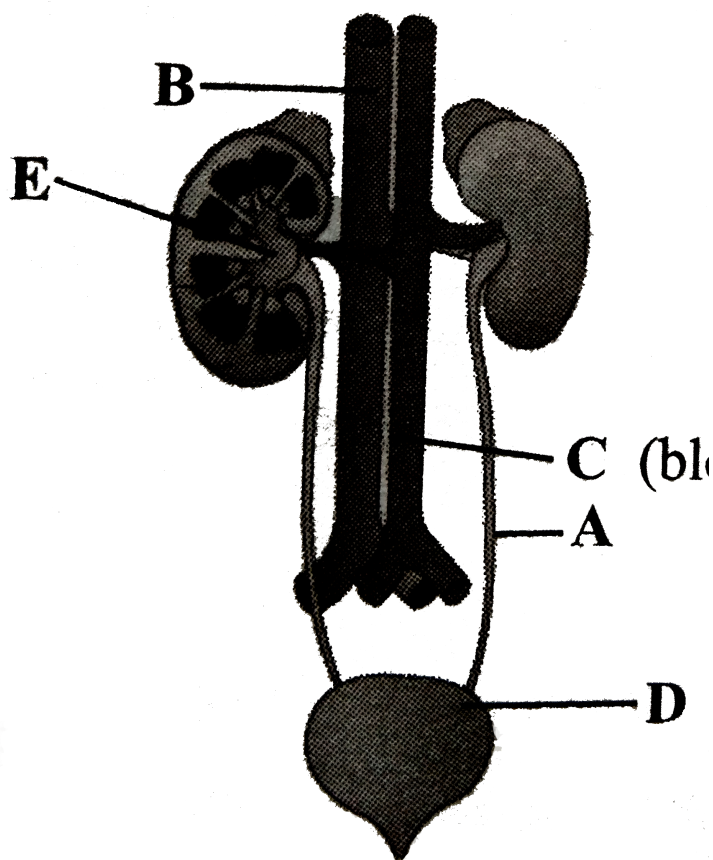
- A. Increase in aldosterone levels
- B. Increase in antidiuretic hormone levels
- C. Decrease in aldosterone levels
- D. Decrease in antidiuretic hormone levels

**Answer: A**



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6. Refer to the given figure of human urinary system and select the option that correctly identifies the labelled parts A to E.





A. A-Adrenal gland -located at the anterior part of kidney. Secrete catecholamines, which stimulate glycogen break down

B. B-Pelvis-broad funnel shaped space inner to hilum, directly connected to loops of Henle

C. C-Medulla -Inner zone of kidney and contains complete nephrons

D. D-Cortex-outer part of kidney and do not contain any part of nephrons

**Answer: A**



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7. The maximum amount of electrolytes and water (70-80 per cent) from the glomerular filtrate is reabsorbed in which part of the nephron?

A. Ascending limb of loop of Henle

B. Distal convoluted tubule

C. Proximal convoluted tubule

D. Descending limb of loop of Henle

**Answer: C**



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**8.** Which one of the following is a correct pair showing the function of a specific part of the human nephron?

A. Henle's loop - Most reabsorption of the major substances from the glomerular

filtrate

B. Distal convoluted tubule -

Reabsorbing of ions into the  
surrounding blood capillaries

C. Afferent arteriole-Carries the blood away  
from the glomerulus towards renal vein

D. Podocytes-Creat minute spaces (slit  
pores) for the filtration of blood into the  
Bowman's capsule

**Answer: D**



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**9.** Which one of the following is not a part of a renal pyramid

- A. Convoluted tubules
- B. Collecting ducts
- C. Loop of Henle
- D. Peritubular capillaries

**Answer: A**



**10.** Uricotelic mode of passing out nitrogenous wastes is found in

- A. birds and annelids
- B. amphibians and reptiles
- C. insects and amphibians
- D. reptiles and birds

**Answer: D**



**11.** Which one of the following statement is correct respect to kidney function regulation

A. Exposure to cold temperular stimulates  
ADH release

B. An increase in glomerular blood flow  
stimulates formation of angiotensin-II

C. During summer when body loses lot of  
water by evaporation the release of ADH  
is suppressed

D. When someone drinks lot of water ADH  
release is stopped

**Answer: D**



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**12.** Injury to adrenal cortex is not likely to  
affect secretion of

A. Aldosterone



B. Both androstenedione and dehydroepiandrosterone

C. Adrenalin

D. Cortisol

**Answer: C**



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**13.** Which one of the following statements in regard to the excretion by the human kidneys is correct?

- A. Descending limb of Loop of Henle is impermeable to water
- B. Distal convoluted tubule is incapable of reabsorbing  $HCO_3$
- C. Nearly 99% of the glomerular filtrate is reabsorbed by the renal tubules
- D. Ascending limb of loop of Henle is impermeable to electrolytes

**Answer: C**



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**14.** The principal nitrogenous excretory compound in humans is synthesised

A. in kidneys but eliminated mostly through liver

B. in kidneys as well as eliminated by kidneys

C. in liver and also eliminated by the same through bile

D. in the liver but eliminated mostly through kidneys

**Answer: D**



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**15.** Uric acid is the chief nitrogenous component of the excretory products of

A. man

B. earthworm

C. cockroach

D. frog

**Answer: C**



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**16.** What will happen if the stretch receptors of the urinary bladder wall are totally removed

A. Urine will not collect in the bladder

B. Micturition will continue

C. Urine will continue to collect normally in the bladder

D. There will be no micturition

**Answer: C**



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**17.** Which are true about the following statements about kangaroo rats

(a) They have dark colour, high rate of reproduction and excrete solid urine

(b) They do not drink water, breathe at slow rate, and have their body covered with thick hair

(c) They feed on dry seeds and do not require drinking water

(d) They excrete very concentrated urine and do not use water to regulate body temperature

A. C and D

B. B and C

C. C and A

D. A and B

**Answer: A**



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**18.** Which one of the following pairs of items correctly belongs to the category of organs mentioned against it

A. Thorn of Bougainvillea and tendrils of Cucurbita-Analogous organs



B. Nictitating membrane and blind spot in human eye-Vestigial organs

C. Nephridia of earthworm and Malpighian tubules of cockroach - Excretory organs

D. Wings of honey bee and wings of crow - Homologous organs

**Answer: C**



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**19.** A person on long hunger strike and surviving only on water will have

- A. more sodium in his urine
- B. less amino acids in his urine
- C. more glucose in his blood
- D. less urea in his urine

**Answer: D**



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**20.** Bowman's glands are found in

- A. olfactory epithelium
- B. external auditory canal
- C. cortical nephrons only
- D. juxtamedullary nephrons

**Answer: A**



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**21.** Angiotensinogen is a protein produced and secreted by

A. macula densa cells

B. endothelial cells (cells lining the blood vessels)

C. liver cells

D. Juxtaglomerular (JG) cells

**Answer: C**



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**22.** The net pressure gradient that causes the fluid to filter out of the glomeruli into the capsule is

A. 20 mmHg

B. 75 mmHg

C. 30 mmHg

D. 50 mmHg

**Answer: A**



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**23.** A person is undergoing prolonged fasting. His urine would contain abnormal quantities of

A. fats

B. ketones

C. amino acids

D. glucose

**Answer: B**



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24. In Ornithine cycle which one pair of the following wastes is removed from the blood?

- A.  $CO_2$  and urea
- B.  $CO_2$  and ammonia
- C. Ammonia and urea
- D. Urea and sodium salts

**Answer: B**



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**25.** Uricotelism is found in

- A. mammals and birds
- B. fishes and freshwater protozoans
- C. birds, reptiles and insects
- D. frogs and toads

**Answer: C**



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**26.** When a fresh-water protozoan possessing a contractile vacuole, is placed in a glass containing marine water, the vacuole will

A. increase in number

B. disappear

C. increase in size

D. decrease in size

**Answer: B**



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27. If Henle's loop were absent from mammalian nephron which of the following is to be expected

- A. The urine will be more concentrated
- B. The urine will be more dilute
- C. There will be no urine formation
- D. There will be hardly any change in the quality and quantity of urine formed

**Answer: B**





**28.** In Protozoa like Amoeba and Paramecium, an organelle is found for osmoregulation which is

A. contractile vacuole

B. mitochondria

C. nucleus

D. food vacuole

**Answer: A**



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**29.** In Hydra, egestion of undigested food and excretion of nitrogenous wastes occur through

- A. mouth and mouth
- B. body wall and body wall
- C. mouth and body wall
- D. mouth and tentacles

**Answer: C**



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30. Which one of the following is correctly matched pair of the given secretion and its primary role in human physiology?

A. Sebum → Sexual attraction

B. Sweat → Thermoregulation

C. Saliva → Tasting food

D. Tears → Excretion of salts

**Answer: B**



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**31.** In living beings ammonia is converted into urea through

A. ornithine cycle

B. citrulline cycle

C. fumarine cycle

D. arginine cycle

**Answer: A**



**32.** Enteronephric nephridia of earthworm are concerned with

A. digestion

B. respiration

C. osmoregulation

D. excretion of nitrogenous wastes

**Answer: D**



**33.** The ability of producing concentrated (hypertonic) urine in vertebrates generally depends on

A. area of Bowman's capsule epithelium

B. length of Henle's loop

C. length of the proximal convoluted tubule

D. capillary network forming glomerulus

**Answer: B**





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**34. Aquatic reptiles are**

- A. ammonotelic
- B. ureotelic
- C. ureotelic in water
- D. ureotelic over land

**Answer: B**



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**35.** A condition of failure of kidney to form urine is called

A. deamination

B. entropy

C. anuria

D. None of these

**Answer: C**



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**36.** In ureotelic animals, urea is formed by

A. Ornithine cycle

B. Cori cycle

C. Krebs' cycle

D. EMP pathway

**Answer: A**



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**37.** In adult Frog, the kidney is

- A. pronephros
- B. mesonephros
- C. metanephros
- D. opisthonephros

**Answer: B**



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**38.** The basic functional unit of human kidney is

A. nephron

B. pyramid

C. nephridia

D. Henle's loop

**Answer: A**



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39. Cholera patient is administered by 'saline drip' because

A.  $Cl^{-}$  ions are important component of blood plasma

B.  $Na^{+}$  ions help to retain water in the body

C.  $Na^{+}$  ions are important in transport of substances across membrane

D.  $Cl^{+}$  ions help in the formation of HCl in stomach for digestion

**Answer: B**



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**40.** If kidneys fails to reabsorb water, the effect on tissue would

- A. remain unaffected
- B. shrink and shrivel
- C. absorb water from blood plasma
- D. take more  $O_2$  from blood

**Answer: B**



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**41. Uric acid is nitrogenous waste in**

- A. mammals and molluscs
- B. birds and lizards
- C. frog and cartilaginous fishes
- D. insects and bony fishes

**Answer: B**





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**42.** Part not belonging to uriniferous tubule is

- A. glomerulus
- B. Henle's loop
- C. distal convoluted tubule
- D. collecting tubule

**Answer: A**



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**43.** Glucose is taken back from glomerular filtrate through

A. active transport

B. passive transport

C. osmosis

D. diffusion

**Answer: A**



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**44.** Nitrogenous waste products are eliminated mainly as

A. urea in tadpole and ammonia in adult frog

B. ammonia in tadpole and urea in adult frog

C. urea in both tadpole and adult frog

D. urea in tadpole and uric acid in adult frog

**Answer: B**



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

A. Urea

B. Uric acid

C. Salts

D. Glucose

**Answer: D**



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**46.** Proximal and distal convoluted tubules are parts of

A. seminiferous tubules

B. nephron

C. oviduct

D. vas deferens

**Answer: B**



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**47.** Brush border is characteristic of

- A. neck of nephron
- B. collecting tube
- C. proximal convoluted tubule
- D. All of the above

**Answer: C**



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**48.** Reabsorption of useful substances from glomerular filtrate occurs in

- A. collecting tube
- B. loop of Henle
- C. proximal convoluted tubule
- D. distal convoluted tubule

**Answer: C**



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